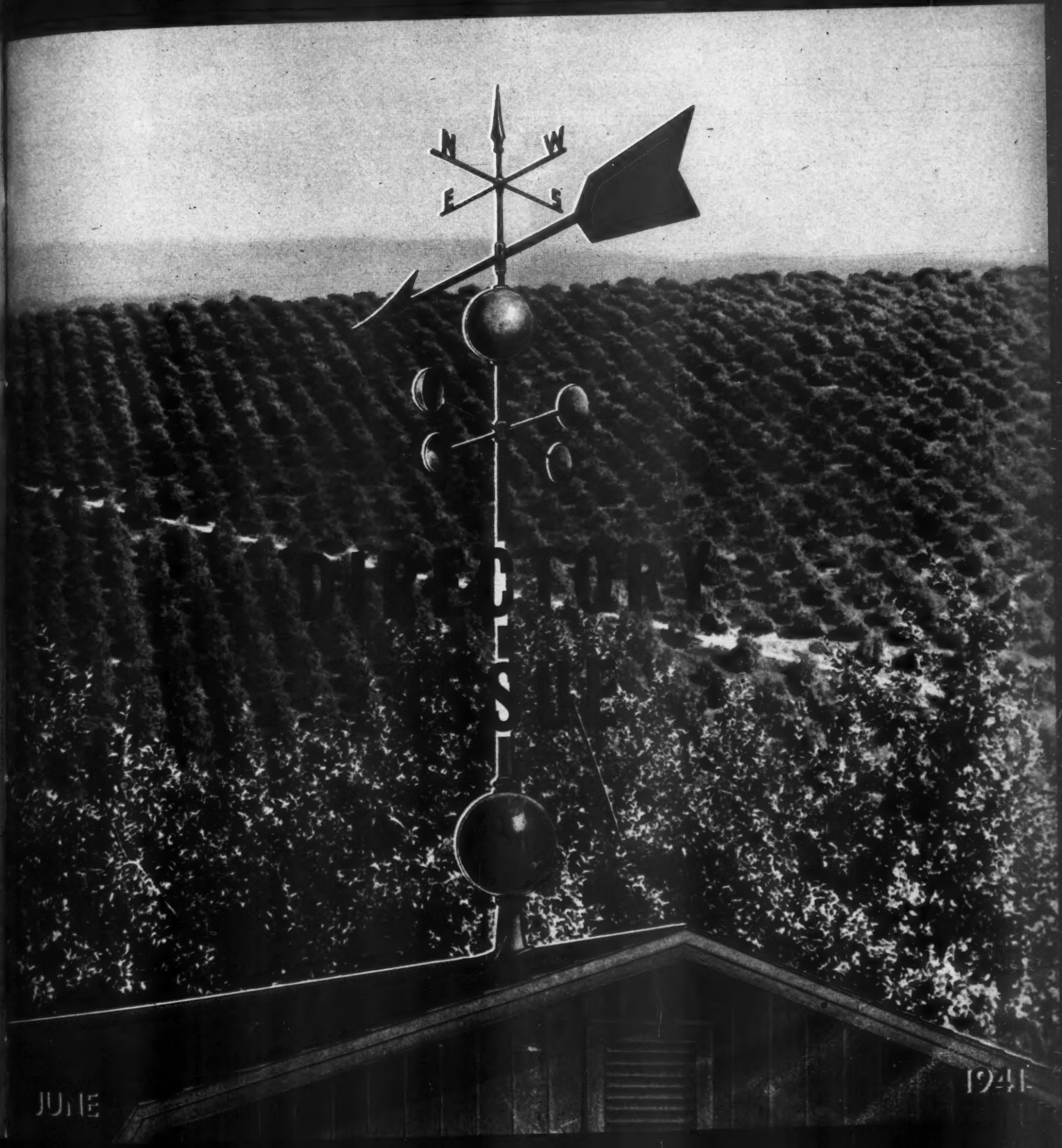


V. 61
No. 6

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Announcing

STAFAST*

**General Chemical Company's
HORMONE SPRAY**

FOR

**Better Size
Better Color
Better Quality**

THROUGH

PREVENTION OF PREMATURE

FRUIT DROP

The General Chemical Company enters this new field as a *manufacturer* of synthetic plant hormones. From test tube to consumer's package STAFAST is a General Chemical Company product.

STAFAST is presented as an economic means of attaining a higher yield of "Fancy" and "Extra Fancy" fruit.

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FOR A MORE PROFITABLE HARVEST

ORCHARD BRAND
Arsenate of Lead

**BUILDS
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**AGAINST
CODLING MOTH!**

The flat, flake-like particles of Orchard* Brand Arsenate of Lead, Standard or "Astringent," permit the building of smooth, unbroken coverages such as this:



Properly applied, these flake-like particles *do not* lend themselves to the formation of splotchy, "thick and thin" coverages such as this:



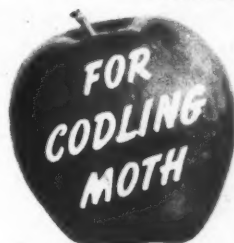
The development of flat particle lead arsenate represents a significant forward step toward better codling moth control. Flat particle arsenate of lead was originated by General Chemical Company research.

* Reg. U. S. Pat. Off.

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PATENT PENDING • TRADE MARK REG. U. S. PAT. OFF.

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GENICIDE is the new, synthetic organic insecticide made available for the first time in 1940. Its performance under commercial growing practice justified the claim that it is a "High-Speed Codling Moth Killer." For many growers, it eliminated the "headaches" of residue removal while holding stings and worm entries to an extremely low percentage.



1940 also represented the third year of successful test and demonstration work against the Oriental Fruit Moth. GENICIDE can now be recommended for use against the late broods that directly attack the ripening fruit. Against heavy infestations, the use of three carefully timed GENICIDE sprays has shown an average increase of 35% in clean peaches—and 35% of a peach crop will more than pay for three GENICIDE sprays.

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Improvements in physical properties now render GENICIDE more naturally adhesive. In addition to this, the development of an improved and less expensive sticker*, or "deposit builder," now permits the use of only 1½ pounds of GENICIDE to each 100 gallons of water, rather than the two pounds previously recommended. The new, lower dosage will actually build up heavier and more closely knit spray deposits which insure even better protection against the codling moth.



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First in performance... first in economy...
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YOU'LL SAY "FIRST BECAUSE IT'S FINEST!"



How a softer tire for airplanes made *Life easier* for 800,000 farmers!

NOT long ago airplane tires were built like automobile casings, and inflated to the same high pressure.

That was the trouble with them — *they were too hard!* In soft ground they bogged down, causing dangerous ground-loops and nose-overs.

Yet, such accidents are practically unknown on today's giant airplanes, thanks to Goodyear's development of a big fat pillow-like low-pressure tire called the Airwheel.

Too big and buoyant to bog down, Airwheels rolled smoothly and safely over sand, snow and even plowed ground.

It was this ability of Airwheels to negotiate rough ground that gave us the clue to something destined to lighten the lot of farmers the world over!

Like airplanes, farm tractors were then having trouble in soft ground. Their hard steel wheels clogged and churned. For all their

power, they plowed not much faster than a horse.

So back in 1931 we put a tractor on Airwheels—the world's first pneumatic-tired farm tractor. It sailed through where steel wheels stalled. We knew we had something, if we could make these airplane-type tires sturdy enough for farm use.

On Goodyear's great 32,000-acre experimental farm in Arizona we developed the Airwheel low-pressure principle into the now-famous Goodyear Sure-Grip tractor tire with its tough, buttressed, open-center tread that pulls through the toughest going.

The rest is history. Farmers were quick to learn tractors would do more work in less time — pull

heavier loads and use less fuel on these specially designed Goodyear tractor tires. They liked their greater comfort, their freedom from spine-jolting thumps.

Today more than 90% of all farm tractors are sold on pneumatic tires, more than 40% of farm implements. And more than 800,000 American farmers now farm on rubber — *because it makes life easier!*

The progressive spirit that saw a modernized agriculture in an airplane tire typifies Goodyear's leadership in making rubber more serviceable to mankind. More than forty years of such enterprise in the public welfare has won for Goodyear "the greatest name in rubber"!

Airwheel—T. M. The Goodyear Tire & Rubber Company



JUNE

VOL. 61

1941

NO. 6

AMERICAN FRUIT GROWER

The
NATIONAL FRUIT MAGAZINE

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FRUIT TO PLAY IMPORTANT ROLE IN NEW NATIONAL HEALTH ECONOMY

AMERICAN FRUIT GROWER REPORTS RECOMMENDATIONS OF NUTRITIONAL CONFERENCE FOR DEFENSE

By RICHARD T. MEISTER

WASHINGTON—The recent three-day meeting here of the National Nutritional Conference for Defense developed four recommendations to be presented to President Roosevelt which directly concern the nation's fruit growers. These recommendations which are designed to eliminate the poor diets and under-nourishment found to be widespread in this country are part of a series of measures meant ultimately to reorganize our national economy and bring about a new plan for American living.

The first of these recommendations calls for the encouragement of greater production by agriculture of protective foods which contain health-giving vitamins and minerals. These protective foods include such products as fruits and vegetables, milk and milk products, eggs, and lean meats. According to Secretary of Agriculture Wickard, who spoke before the conference, it would be necessary to consume twice as many fruits and green vegetables, including apples, green beans, cabbage, etc., and 70 per cent more citrus fruit and tomatoes if everyone in the United States is to have a nutritionally sound diet. Because huge surpluses of wheat, cotton, and tobacco have accumulated, it was suggested that some of the land now used for these products might be planted to the so-called protective foods.

The second of the recommendations asked for efforts to improve food distribution, including processing, marketing, packaging, and labeling, to bring about real economies for the consumer. It was pointed out that these efforts would include vigorous prosecution of illegal practices under

the anti-trust laws and the laws relating to unfair trade practices wherever such practices result in unjustifiable increases in food prices.

The third recommendation asked for full use of any practical devices such as the Stamp Plan, free school lunches, and low-cost milk distribution which will bring nourishing, adequate meals to those who could not otherwise afford them, and at the same time help to distribute food surpluses at a fair return to the grower.

The fourth recommendation asked that encouragement in every practical way be given to more production for home use by rural people, especially those at low income levels. It was brought out that large numbers of farm families can greatly improve their nutritional status by making more complete use of the resources on their own farms.

It is difficult to determine what concrete effects these recommendations will have on the fruit growing industry. A great deal depends on how well the recommendations are carried out. Briefly, it is expected that the President will set up machinery to put the program into effect as one of the keystones in the national defense effort.

The Nutritional Conference for Defense marks the beginning of a new trend in American eating habits and home economy. More emphasis will be placed on fruits and other foods which contain elements Americans need for sound health. If this movement expands as rapidly as Washington expects, it can mean a greater demand in the future for both deciduous and citrus fruits.

FOR *Every* MAN'S NEED
—JUST THE *Right* FARMALL



Here the year 'round all-purpose small Farmall-A works admirably in the Adolph Sempert orchard at Sodus, Mich.

ALREADY the new streamlined McCormick-Deering FARMALLS are 'way beyond the hundred-thousand mark in use on farms throughout the country. Since Harvester pioneered this great general-purpose idea, 17 years ago, over a half-million FARMALLS altogether have been called into the service of agriculture. Experience proves that tractor utility is at its best where Farmall power takes the burden all through the year.

and then there are Farmalls "B", "H", and "M"—just the right one for *every requirement*. Besides the streamlined FARMALLS the International Harvester line now offers 4 TracTracTors and 5 standard and orchard-type wheel tractors. They can all be bought on easy terms on the Income Purchase Plan. See the nearby International Harvester dealer for complete information about these tractors and the machines built to work with them.

Here we show the smallest unit, Farmall-A,

INTERNATIONAL HARVESTER COMPANY
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McCORMICK-DEERING FARMALL



AMERICAN FRUIT GROWER PRESENTS FUTURE POSSIBILITIES OF HORMONE SPRAYS

Growers all over the nation will be using the Harvest sprays this summer and fall. AMERICAN FRUIT GROWER is interested in hearing of the results growers obtain and asks that readers do not hesitate to write and tell of their findings. . . . The introduction to this section was written by Dr. F. E. Gardner, principal Pomologist, U.S.D.A. The material on the following pages concerning apples and citrus fruits is based on Dr. Gardner's observations. —Editors.

THE numerous fundamental researches with hormones and the varied responses they bring about in plant parts are pointing the way to increasing numbers of practical applications in the solution of horticultural problems.

In discussing some of these horticultural applications, and in pointing out future possibilities of the hormones, perhaps the most logical approach is to consider the action of the hormones on different fruits.

The most frequently observed response to the hormones is a stimulation of growth. This growth, however, instead of being general in character, usually is restricted to a particular part of an organ of the plant and, indeed, even to particular groups of cells within that organ or part.

Sometimes this stimulated growth is orderly in character, resulting in seemingly normal tissue differentiation and the development of more or less nor-

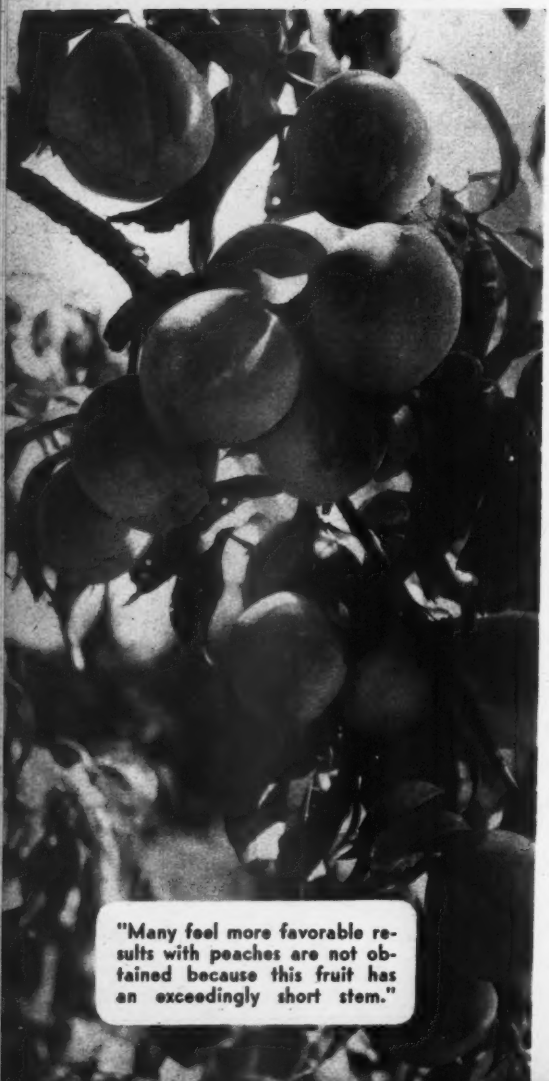
mal organs such as roots and fruits. Sometimes, however, the growth is in the wildest disorder with certain cells dividing at top speed, resulting in twisted, disarranged organs and in grotesque proliferations and galls.

Stimulation of growth, however, is not the only result which can be obtained from the hormones. In fact, under certain conditions growth inhibition results and this observation has been made use of in horticultural practice.

Whether the use of hormones will result in stimulation or inhibition, in orderly or disorderly development, or in any observable effect whatever, depends on a great many factors such as the particular hormone used, the concentration applied, the manner of its application, the part or organ of the plant receiving the application, and its condition at the time with respect to sensitivity to stimulus.



"The most successful and extensive use of hormones has been in the control of pre-harvest drop of apples."



"Many feel more favorable results with peaches are not obtained because this fruit has an exceedingly short stem."

PREVENTING PRE-HARVEST DROP —OTHER USES WITH APPLES

PREVENTION OF DROP

Perhaps the most successful use of hormones has been in the control of pre-harvest drop of apples. To prevent this drop, which in many cases occurs just prior to the development of proper color necessary for top grade fruit, the grower can spray his orchard with very dilute solutions of naphthalene acetic acid or naphthalene acetamide just as drop first begins. With apples the spray takes effect within a day or two and lasts for several weeks, depending somewhat on the variety.

BLOSSOM DELAY

The ability of the hormones to check bud development has found several interesting horticultural applications. One of these is in the delaying of fruit tree blossoming in the spring, thereby lessening the danger of frost injury to the flowers.

WIDE-ANGLED CROTCHES

Hormones also have been found to affect the curvature of stems. When hormones are applied to growing stems or leaf petioles, a greater rate of growth is obtained on the side of application than on the opposite untreated side, thus causing a bend away from the side of treatment. This action of hormones has been used in the training of young fruit trees when they are first set in the orchard. It has been reported that narrow angles which make for structurally weak crotches can be avoided by use of the hormone indole butyric acid.

IMPROVING FRUIT SET

It had been thought that hormones possibly might induce self-sterile varieties to set fruit. However, all attempts thus far to accomplish this have failed.

PEACHES

PREVENTION OF DROP

Compared with the extensive experiments of the hormone spray on apple trees, there have been few tests made during the past season on peach trees.

One test made on the effects of naphthalene acetic acid spray in delaying the drop of peach fruits showed no significant difference between sprayed and unsprayed trees. Many research workers feel that the reason more favorable results are not obtained from the hormone spray with peaches is because this fruit has an exceedingly short stem which is diffi-

cult to hit with spray material. Some growers report, however, that application of the spray keeps the fruit on the tree for five to six days longer.

In one experiment, using one row of 18 vigorous nine-year-old Elberta trees, alternate trees were sprayed with .001 per cent naphthalene acetic acid and the remaining trees were left unsprayed.

This spray application was made on September 4, about two days before the first picking on this variety. The fruits were allowed to drop and a record was made of the number of drops picked up daily under each tree.

Some drop of mature fruit injured by Oriental peach moth occurred after the spray was applied and continued on successive days. On the third day after the spray was applied, mature sound fruit began to drop and the drop continued until September 16, when all fruit had fallen. Still, no significant difference between the sprayed and unsprayed trees was evident.

BLOSSOM DELAY

Peach trees, sprayed just prior to bud opening with a strong hormone solution, were delayed about 10 days in blossoming.

PEARS

PREVENTION OF DROP

In Missouri one limb of a Koonce pear tree bearing 17 fruits was sprayed and another limb, also bearing 17 fruits, was left unsprayed. Twelve days after the application the sprayed limb still bore 13 pears while the unsprayed limb bore only six.

One research worker computed that by using the hormone spray on his pear trees he saved approximately 55 pears per tree or 5500 pears per acre. On this basis, figuring four pears to a pound, he claims he saved 1375 pounds per acre. At \$20 per ton this fruit brought him \$13.75, which did not quite cover the cost of application.

Generally sprayed pear trees give no indication of results until about three days after the first application. By the end of the sixth day, there is considerable less dropping and effects are still more evident 12 or 16 days later.

On an experiment with D'Anjou pears, a decided decrease in drop was observed with the hormone spray taking effect within 24 hours after application.

Before the spraying the fruit was dropping badly but after application the fruit no longer dropped so readily.

HORMONE SPRAY MAY AID CITRUS SET —LOWERS ACID CONTENT

PREVENTION OF DROP

The most pronounced effects of hormones on citrus are to be obtained by application early in the development period of the fruit. In contrast, the effect of the sprays on apples, so far in advance of maturity, is lost by picking time.

Hormone sprays were applied to Pineapple oranges in Florida during the last week in November. Thereafter at intervals of three weeks different rows of trees in the same grove were sprayed until February 5 when the last application was made, two weeks prior to picking.

The trees used in the experiment were eight years old, on rough lemon roots, and were carrying a rather full crop, averaging four and two-fifths boxes per tree.

Although the drop over the entire grove was usually light, results showed that the first application in November resulted in a reduction of drop compared with the unsprayed control row of trees. The latest sprays on February 5 were entirely without effect.

During picking the tightness of the fruit on the first-sprayed trees was very noticeable, indicating that sprays applied very much earlier than November may give worth-while protection. During the coming season, the effect of time of hormone spray application on citrus will be studied further.

BLOSSOM DELAY

Sprays of naphthalene acetic acid and naphthalene acetamide were applied to Florida orange and grapefruit trees at various dates prior to start of the spring flush in order to learn if the hormones would delay starting time, but no evidence of this was discovered.

IMPROVING FRUIT SET

It was thought that hormone application on oranges and grapefruit might improve fruit set. However, experiments as yet have not been very successful, although possibilities have by no means been exhausted.

LOWERING ACIDS

With the food-mobilizing ability of the hormones in mind, experiments were started to determine if these sprays would increase the solids in citrus juices. The first sprays were applied as early as June 14, and on successively later dates to additional blocks of trees. No significant differ-

ences between sprayed and unsprayed trees were found in the juice solids.

The juice acids, however, were reduced in all instances in which the sprays were applied early in the season. Although the acids were lowered early in the season, with progressing maturity, acids of both sprayed and unsprayed fruit eventually reached approximately the same point. Sprays applied to Valencias late in the season on January 22 had little or no effect on acids. As with Pineapple oranges sprayed for drop control, it would appear that for best results the spray should be applied on all citrus early in the growing season.

CHERRIES

STOPPING SHRIVELING

Gareth Clark of Spencerport, N. Y. obtained good results with the use of hormone sprays on cherries. He cautions, however, that his experiments were only one year's casual observation on a small scale and results may vary with further tests.

He sprayed an experimental block of Montmorency trees with naphthalene acetic acid, two grams to 100 gallons, on July 28, the day he normally finishes cherry picking. To test this application of growth substances, he left check trees.

On August 21, he picked the fruit from all the experimental trees, noticing that more than half the stems on the unsprayed trees were browned and dried out, causing the fruit to shrivel, while on the sprayed trees scarcely one per cent of the fruit had shriveled. The stems were green and the cherries were firm and plump.

HIGHER SUGAR CONTENT

Because the cherries stayed longer on the sprayed trees, they ripened more fully and the acid content decreased while the amount of sugar increased. With these cherries Mr. Clark found it was not necessary to add sugar when making cherry juice.

SAVING LABOR COSTS

Clark believes that the spray will be especially useful this summer on canning cherries. He claims that by using the spray he can harvest all his cherries with one picking, doing away with two or three pickings. This, he says, will save labor—a point worth special consideration with the present labor scarcity.



"The most pronounced effects of hormones on citrus are obtained by application early in development period of the fruit."



"By using the spray cherries can be harvested with one picking, doing away with two or three pickings. Labor is saved."

HORMONES PROMISE TO SOLVE PROBLEM OF TRANSPLANTING PECANS

PROMOTES ROOT GROWTH

Satisfactory results have followed hormone applications to pecan trees during transplanting.

Small holes just large enough for a round toothpick were bored in the taproots of the transplants. The toothpicks were dipped in a hormone solution and used to plug up the holes.

Considerably larger amounts of new roots were formed on the treated trees as compared with untreated check trees but there was no significant increase in top growth during the first year.

The difficulty of getting pecan transplants quickly re-established so they live and make average new growth during the first year or two after transplanting has been a serious problem which the present experiments give promise of solving.

The above described method or some modification thereof is applicable to those trees, like pecans, which have few fibrous roots close to their main axis and which, therefore, lose the greater part of their feeding roots in the process of digging.

PLUMS •

Fruit from the plum tree may drop any time during the growing season but dropping is most marked after the normal thinning period. For best results the hormone spray should be applied to plum trees about two weeks after thinning. One experiment revealed that a decrease in the number of drops by about 25 per cent may be expected after use of the hormones.

Though appreciable decrease is noticed in the drop of the sprayed fruit, no difference in the quality of the plums is noticed after application of the hormone spray.

APRICOTS •

PREVENTION OF DROP

Hormone sprays were applied to Stewart apricots in California on April 27 and May 8. Between the time of the first and second spray period, all the trees behaved alike. No differences were observed. However, at the time of the second spray, the check trees continued to drop a large

portion of fruits and the sprayed trees showed a small drop. The sprayed trees dropped only about 16 per cent as much fruit as the check trees, a saving of 84 per cent, which amounted to about 250 fruits per tree.

* * *

FURTHER OBSERVATIONS ON HORMONES AND PLANT REACTIONS

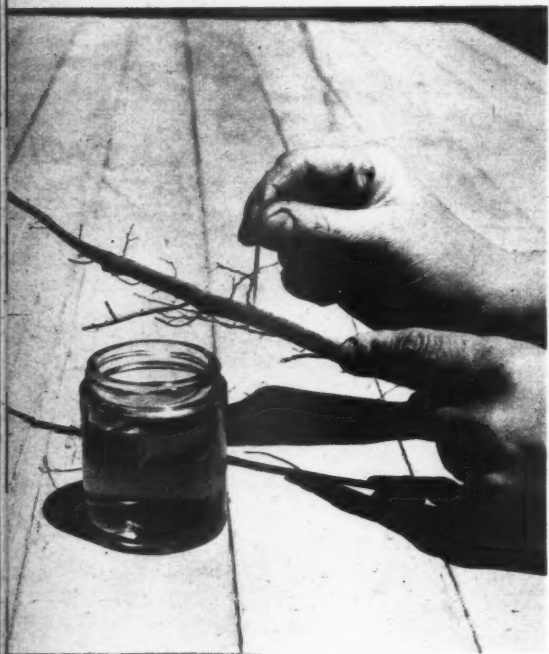
Some 60 years ago, as pointed out by Dr. F. E. Gardner, principal pomologist, U.S.D.A., the botanist, Julius Sachs, asserted that a specific root forming substance is manufactured in the leaves of plants and moves to lower portions to cause root development. It remained, however, for modern plant physiologists and chemists to demonstrate the correctness of Sachs' hormone theory by extracting root stimulating substances from plants, determining their chemical structure, and then synthesizing in the laboratory those compounds and hosts of others which, although not known to occur in plants, have hormone-like activity.

In general it may be said that a relatively high concentration of hormones and a prolonged exposure to their action is necessary for the stimulation of root initiation. To accomplish this, cuttings usually are treated by soaking their basal portions for six to eight hours or more in a water solution of the hormone, or by dusting on the bases of the cuttings a talc powder containing the hormone which will remain in contact with the tissues to provide the prolonged treatment necessary.

The development of fruit without fertilization—called parthenocarpy—is not uncommon in nature. Familiar examples of normally occurring parthenocarpic fruits are the banana, the Thompson seedless grape and the navel orange. With some fruits the stimulus provided by pollination, even though fertilization does not ensue, is sufficient to cause fruit development. It was this observation, that pollen will in some cases stimulate fruit setting even when fertilization cannot take, which led to the discovery that the hormones can be used to cause fruit development in a number of plants. It was found that pollen contains naturally occurring hormones and that extracts of certain pollens can induce parthenocarpy.



Above—The toothpick is dipped in the hormone solution before being inserted in the root. Below—The toothpick carrying the hormone solution is pushed into a hole bored in the root.



Below—The end of the toothpick is broken off and it now plugs the hole. Pecan trees treated in this manner form considerably larger amounts of roots and grow better.



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A big step toward more orderly and more profitable marketing of fruit crops has been the widespread construction of fruit farm storages.

THE GROWTH OF MODERN COLD STORAGE ON THE FRUIT FARM

CONSTRUCTION of cold storages has been accelerated during the last 10 years because of the fruit grower's desire to overcome marketing problems by erecting his own storage and controlling his marketing. Emphasis also is being placed nowadays on correct marketing as well as on growing, and the orchardist has been studying ways of presenting to the housewife fruit in its most delicious and appealing form. Growers are finding that the control of packaging and marketing which storage on the farm makes possible enables them to regulate profitably the flow of fruit crops to the consumer.

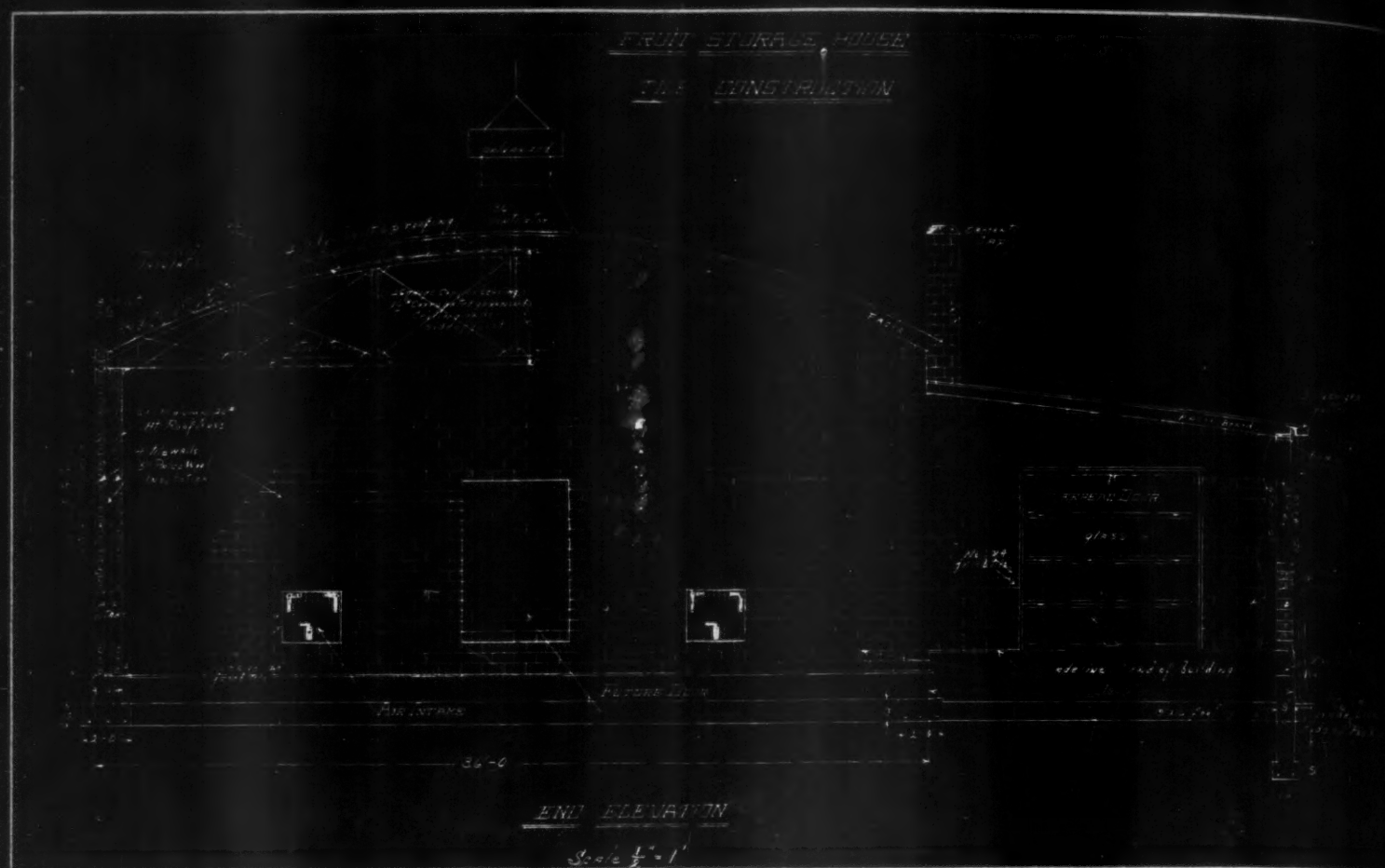
If the fruit grower can adequately support the financial load of building a storage, benefits will be numerous. If he has been storing his fruit in commercial storages, he no longer will have to pay relatively high rates to commercial operators. Figures show that it costs the grower 5 to 15 cents per bushel to operate his own storage while he must pay 15 to

25 cents per bushel of fruit for commercial storage.

By having his own cold storage, the grower who formerly found it too expensive to put fruit in commercial storages and thus was forced to sell at the first price offered will be able to keep his apples until prices are at a profitable peak.

An important benefit to those who sell at the orchard is the help a storage gives in roadside marketing. It is almost impossible to sell the high-quality fruit demanded for successful roadside marketing without a cold storage on the farm, especially in the spring.

With a rapidly growing consumer taboo on bruised and battered apples which have been injured in ordinary commercial handling, growers are realizing that they must store, package, and market their own fruit. They are accomplishing this by establishing their own cold storage on the farm and effectively controlling their own marketing programs.



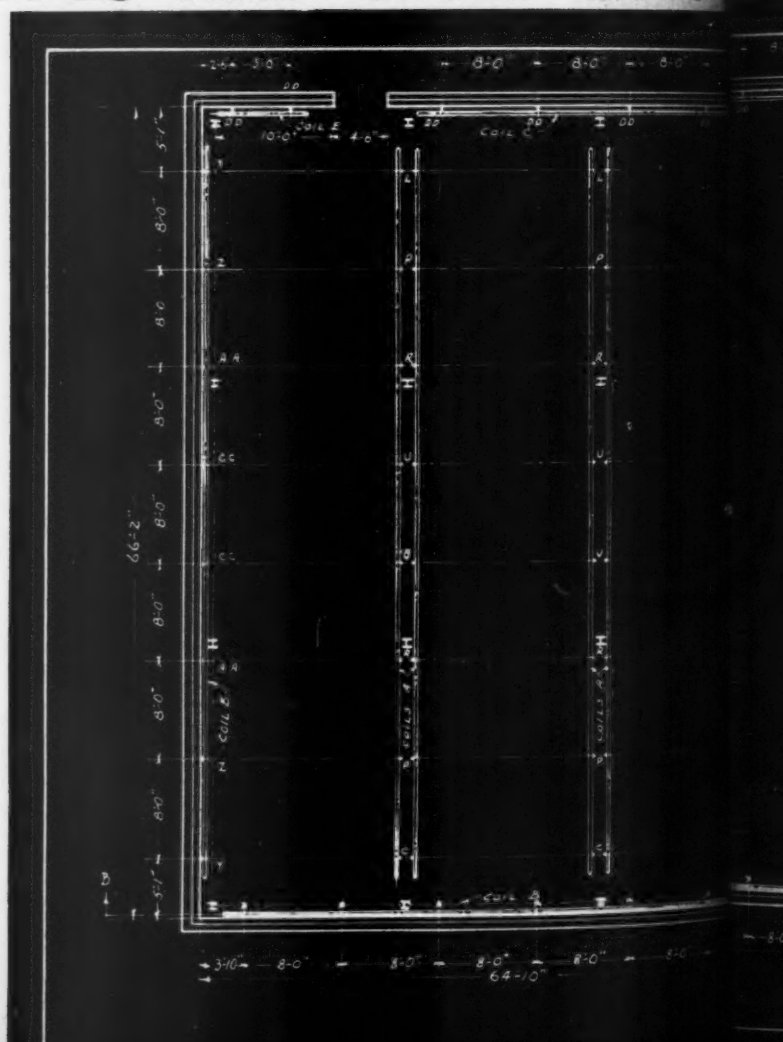
HERE ARE THREE TYPES AND SIZES OF STORAGE

COMBINATION STORAGE IS ONE SOLUTION

Above is the end elevation of a 10,000-bushel fruit storage erected in Michigan having a 16 by 60-foot packing room of double hollow tile wall construction with insulation between the two walls. Floor, walls, and roof of this building are designed for refrigerated storage as proper vapor-proofing is provided on the exterior walls. The storage was designed to have a 3600-bushel capacity refrigerated section and a 6400-bushel capacity air-cooled section. With this combination, the grower can use his refrigerated portion for long carry-over and the air-cooled portion for short carry-over. As he finds it possible, he eventually can refrigerate the entire plant. Plans for this storage were designed by the Kalamazoo Tank & Silo Company, Kalamazoo, Mich.

* * *

To the upper right is the end elevation of a 7000-bushel capacity air-cooled fruit storage. This storage was built by an Ohio grower who can refrigerate his common storage by properly vapor-proofing and insulating all walls and floors and installing refrigerating units. Important features of this storage are the large amount of floor area for handling fruit and the large storage space for crates on the second floor. Blueprints for this storage were produced by the Department of Agricultural Engineering, Ohio State University, Columbus, Ohio.



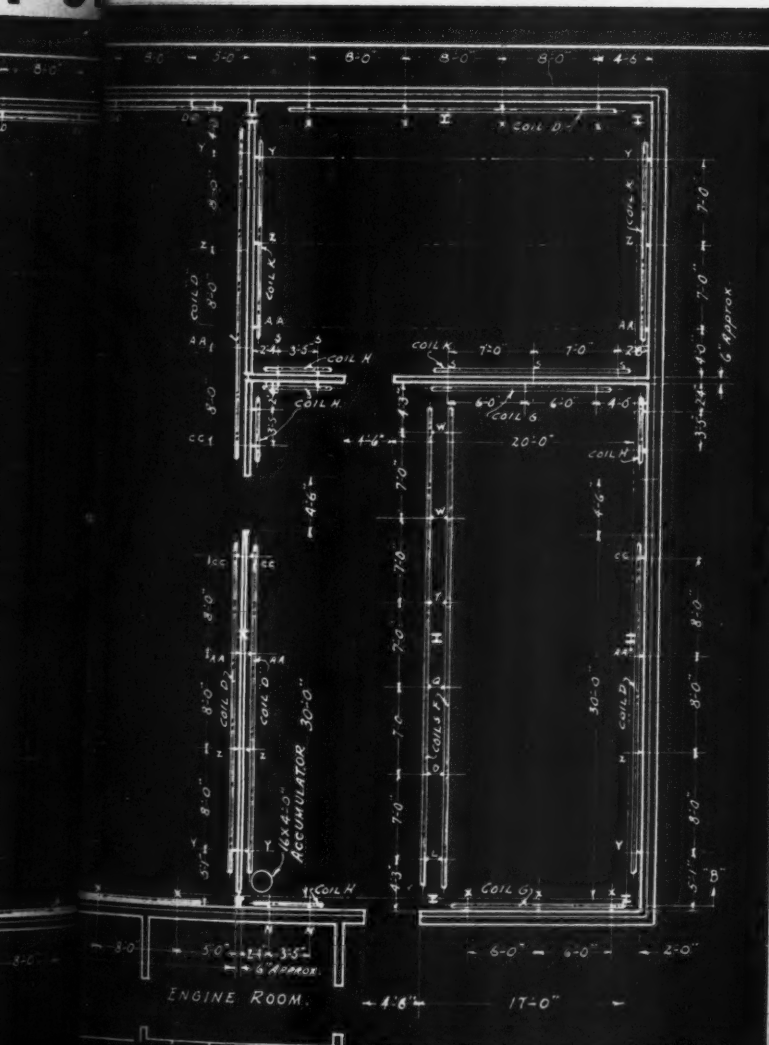
STORAGES TO HELP YOU IN YOUR PLANNING

PACKAGING, PROCESSING SPACE PROVIDED

To the left is a 27,000-bushel capacity cold storage constructed at Shephardstown, W. Va. This floor plan provides room for packing operations and for processing of fruit, making it ideal for the grower who plans to produce his own by-products such as apple juice or cider. With such a setup by-product stock can be held in the storage until needed for processing. The plant is cooled by 4200 feet of two-inch pipe connected to a compressor driven by a 15 horsepower motor. Plans are printed through the courtesy of the Frick Company, Waynesboro, Pa.

WE CAN HELP YOU

The plans for fruit farm storages reproduced on this page have been designed specially to fulfill the needs of certain growers. Since types of storages will differ for each grower, readers are urged to write to the Cold Storage Editor, AMERICAN FRUIT GROWER, 1370 Ontario St., Cleveland, Ohio, for advice on plans for building. When writing, please tell the size desired. The Cold Storage Editor will furnish you with helpful information which will save both time and money.



STATE NEWS

ARKANSAS—Over 300 acres of strawberries were harvested this spring in Searcy County, northwestern Arkansas. The quality of the berries was unusually good. Among the most progressive growers in the county are Uriah Stills, W. G. Ragland, H. B. Brown, G. F. Hall, Arthur Garrison, Alfred Freeman, Vernon Cypert, and J. O. Johnson.

Increased use of commercial fertilizer is believed by most farmers to be responsible for the improved yield and quality of the berries in that locality. On one farm a part of the berries were on fertilized land and the remainder on unfertilized land. The difference was noticeable even in the coloring of the fruit.

"As a rule, powdered fertilizer will show much better results than granular fertilizer," explained one grower. "I think the berries grown on land treated with granular fertilizer will show as good coloring as the other but the fruit will fail to withstand drought and severe winters as well, so the increase in yield and berry size will not be quite so noticeable."

Last year the crop in this county was cut by winterkilling but a normal crop was obtained this year, more than 100 crates per acre not being uncommon. County Agent C. W. Bedell is a great booster for the berry people and is always on the alert for any new developments which can be adapted to his county.—**DAVID I. DAY.**

CONNECTICUT—High temperatures during April brought apples into full bloom about two weeks early. Most of the State had excellent weather for bees to work during the blossom period. McIntosh bloom was heavy, Baldwins light, and other varieties fair to good. Frost injury on May 3 was limited to low areas and the apparent total crop loss was slight. Rainfall from January 1 to April 30 was 35 per cent below normal. Heavy rains on May 8, 9 and 10 relieved the drought.

The 1940 commercial orchard survey for Connecticut shows 28 per cent of all apple trees under bearing age. McIntosh leads the list of varieties with 37 per cent in the non-bearing class. Only three per cent of all apple trees reported were over 40 years old. The estimated apple production for 1950 is about 10 per cent greater than the 1940 crop. The probable increase for McIntosh is about 35 per cent and the probable decrease in Baldwins over the next 10-year period is about 25 per cent. The present commercial production in Connecticut is about 400,000 bushels of McIntosh and about 375,000 bushels of Baldwins.

The Bureau of Markets of the Connecticut Department of Agriculture announces the adoption of a new grade for apples in the "cull" class. The new grade, to be called "Connecticut Cooker Grade," was adopted at a public hearing on April 10, after considerable study by a special committee of growers and after approval by the executive committee of the Connecticut Pomological Society. It is hoped that this additional grade will help solve the present cull apple problem, allowing the sale of the best cull fruit as fresh fruit, and ruling out apples unfit for consumption.

Fruit Day of Farm and Home Week at the University of Connecticut will be held on July 30. The Connecticut Pomological Society and the New York and New England Apple Institute are co-operating.—**H. A. ROLLINS.**

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MASSACHUSETTS—To combat all spraying problems in the Nashoba Valley many growers have looked for some way of keeping well informed about the latest insect and disease control and the proper time to apply the sprays. Twilight meetings have done more than anything else to give this service.

Once a week during spring and early summer the growers attend these twilight meetings which are held at one of the orchards in the district. The meetings are arranged for by the Extension Service or the different fruit growers' associations. The first meeting may be held at the large Rice Orchards in the south end of the district, the next one at a small grower in the middle of the valley, etc. The meetings start at seven o'clock before it gets dark and from seven to eight o'clock growers walk through the orchard observing all labor-saving devices, methods of spraying, pruning, fertilizing, thinning, etc. About eight o'clock the group heads for the packing shed where a speaker such as the county agent, college extension pathologist, or college horticulturist discusses the latest information on scab development, apple mag-

got emergence, crop outlook, or advertising laws.

The attendance at these meetings has been excellent, ranging from 20 to 125 growers. The growers feel that this type of meeting does not cut into their day's work and it gives them a chance to find what spray program they should use from one week to another. Another rule, that is quite closely followed, is to close promptly at nine o'clock as a late meeting discourages attendance at the next meeting. Sometimes refreshments are served such as cider and doughnuts.

The statement often is made that New Englanders are very individualistic. However, once you attend one of these meetings or find the growers getting together to put on the great Nashoba Apple Blossom Festival where they have 300,000 people coming out to look at their orchards and the 25 queens, you must change your mind.—**E. L. AGNEW.**

FLORIDA—The Florida Citrus Commission, Lakeland, in an eight-page mailing is pushing nationally advertised canned Florida citrus products. Products offered to the public are: grapefruit sections, grapefruit juice, citrus salad, blended orange and grapefruit juice, and orange juice.

Sales helps include: Four-color counter cards, two-can die cut counter cards, full-color single can die cut counter cards, can-top price cards, four-color wall strips, grapefruit pennant and poster, health and recipe booklets, and a full-color grapefruit sections counter card.

CALIFORNIA—An estimated total of 303,266,000 orange advertisements will appear in American and Canadian newspapers and magazines as a part of the 1941 Valencia advertising campaign planned by the California Fruit Growers Exchange.

In addition to advertising in 256 daily papers in 185 cities, 2606 weekly papers throughout the United States will be used to stimulate Valencia sales in small towns.

Advertising Manager Russell Z. Eller has pointed out that the greatest Valencia advertising campaign in the history of the co-operative is made possible by the seven cent per packed box assessment covering shipments which may exceed last year's record crop of this variety.

The Sunkist dealer service staff has been increased to 60 trained men compared to 55 last summer and 38 in 1939. The centers of dense population, particularly those with large defense industry payrolls, will be covered more intensively and dealer service activity will be extended to more of the outlying communities.

Following up the "Best For Juice and Every Use" slogan which proved so effective in 1940, exchange advertising will continue to emphasize the health value of California oranges. The campaign will continue to stress vitamins, particularly Vitamin C of which California oranges are a good source.

Canned juices, especially citrus juices, are expected to furnish strong competition. Last year's national pack of canned citrus juices was nearly fifteen million cases compared to less than nine million in 1937.

"Canned citrus juices compete directly with fresh oranges and will be offered to the public at bargain prices by many retailers," said Eller. "Valencia advertising must stress the finer flavor and greater health value of fresh oranges of dependable quality."

JUNE, 1941

NATIONWIDE NEWS

Apple Committee Appointed By Secretary of Agriculture

Secretary of Agriculture Claude R. Wickard on May 10 appointed a special committee within the U.S.D.A. to study problems peculiar to the apple industry.

All factors pertaining to present conditions in the industry may be subject to analysis by this group, but special attention will be directed toward marketing and the place of apples in the national nutritional program.

Dr. M. L. Wilson, director of Extension Service, will serve as chairman of the committee composed of the following members:

Louise Stanley, Chief, Bureau of Home Economics.

George Reynolds, Surplus Marketing Administration.

Porter R. Taylor, Surplus Marketing Administration.

W. C. Ockey, Extension Service.

J. R. Magness, Bureau of Plant Industry.

Neal W. Johnson, Bureau of Agricultural Economics.

C. W. Warburton, Farm Credit Administration.

E. C. Johnson, Farm Credit Administration.

W. G. Meal, Agricultural Marketing Service.

A. W. Manchester, Director, Northeast Division, AAA.

Harold Schwartz, AAA.

Charlotte Chatfield, Bureau of Home Economics.

Sybil Smith, Office of Experiment Stations.

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National Apple Institute's annual meeting will be at the Deshler-Wallick Hotel, Columbus, Ohio, June 16-19.

The meeting will consist mainly of open discussion without headline speakers to determine how the apple crop will be handled next fall. Discussions will be led by authori-

(Continued on page 18)

AMERICAN FRUIT GROWER



MARKETING



SPRUCE UP TO BUILD UP SALES

"**NOTHING** succeeds like success," says Ernest R. Clark of Spencerport, N. Y., whose roadside market has grown steadily every year and now is about to receive new improvements. Under the direction of son Gareth Clark, who operates the orchard and market jointly with his father, the roadside store will be streamlined and modernized.

As the first improvement, the father and son combination plan to landscape the grounds around the building. The



To attract additional motorists, the Clarks plan this year to landscape the grounds surrounding their market.



Interior view of the roadside market showing neatly arranged rows of apples packed in bushel and corrugated baskets. Price tags are included.

idea behind this is to beautify the property so it will make a pleasing appearance to prospective customers.

The Clarks make their own apple juice at the orchard and have found a ready demand for it. To facilitate further sales of the juice, they plan to build a fruit juice bar in one corner of the store and to employ an attractive salesgirl to wait on customers. At the bar only fresh, chilled fruit juice will be served.

In the basement below the store is an air-cooled storage. The younger Clark plans to build several controlled atmosphere storage lockers in this space for the McIntosh apples. He also intends to construct a small lift so that apples may be brought from the storage in the basement to the market upstairs with no trouble or delay. "Straight from the storage to you," will provide an effective advertising slogan.

State authorities plan to widen Ridge Road some day to a four-lane superhighway. When they do, the Clarks will have a larger parking space. They intend to pave it with concrete, making an easily accessible, smooth, dust-free area in which motorists will have no difficulty parking.

JUNE, 1941

The Clarks are looking ahead to a better roadside store, and they will be a pair of greatly surprised merchandisers if sales do not keep pace with the improvements they are planning.

BERRY GROWERS MAY use the hallock-type berry box for this year's crop, it was announced definitely by the Food and Drug Administration which earlier in the season prohibited the use of these boxes after receiving complaints that these containers were deceptive because of raised bottoms. Fifty per cent of interstate shipment in Minnesota would have been affected seriously if this prohibition had not been rescinded. Growers and shippers who were affected by the earlier order, because their year's supply already was purchased, now can move their crops to market. Loss of thousands of dollars in berry boxes and severe losses to growers because of their inability to secure other types of boxes would have occurred if the hallock-type boxes had been prohibited this year.

WASHINGTON STATE Apple Advertising Commission, which now receives a

doubled advertising revenue from growers, gave the sale of Winesaps a boost by a national radio advertising campaign last month. Twenty-five to 50 one-minute spot broadcasts in 14 key cities did the trick for the sale which was held back by unseasonably warm weather.

THE GEORGIA ASSOCIATION of Peach Growers, including growers of the Carolinas, has announced the largest advertising and merchandising campaign in its history for 1941. Newspaper advertising and display material will be the prime features of the campaign. The account, which was resigned recently by the advertising agency, Brooke, Smith, French and Dorrance, will be handled direct.

PRUNE INSTITUTE of America has announced the formation of a new dried fruit packing firm which has pledged to pack and market only the crop of the current year and will not be burdened with fruit carried over from crops of previous years. This means "dated prunes" for consumers.

Is a "MUST" on any Spray Schedule



**Stops pre-harvest
drop, allows fruit
to color better,
increases profits.**

MORE BUSHELS—BETTER COLOR

Figure it out for yourself! It costs from 10c to 30c per tree—depending on size—to spray with FRUITONE. Look at the table below for increased yields per 10 year old tree from FRUITONE application. The answer is simple—it would cost you a lot of money *not* to spray with FRUITONE.

Williams Red	7.8 bushels more	McIntosh	2.9 bushels more
Red Duchess	4.9 bushels more	Stayman	4.0 bushels more
Early McIntosh	7.8 bushels more	York Imperial	2.6 bushels more
King David	4.2 bushels more	Rome Beauty	4.9 bushels more
Delicious	6.4 bushels more	Wealthy or Jonathan would produce	3 to 4 bushels more

Increased quality. Apples that stay on the tree to maturity have better size and color. One New England grower reports 81% Fancy pack from his FRUITONE sprayed apples.

FRUITONE is the pioneer harvest hormone spray—the only one with two seasons' experience in back of it. Successful in every part of the country, as shown by reports from Experiment Stations and growers from Mississippi to Maine, from Virginia to Washington. **FRUITONE REALLY WORKS!**

COSTS FROM 1 to 1½c PER BUSHEL

Simply mix FRUITONE Powder in your spray tank at the rate of ½ lb. to 100 gallons of water. A single application made 10-14 days before picking time will control pre-harvest drop except with McIntosh.

Write us for descriptive booklet. Address Dept. 91

AMERICAN CHEMICAL PAINT COMPANY

Ambler, Pa.

NATIONWIDE NEWS

(Continued from page 16)

ties in different fields of apple marketing. A partial list of those who will attend includes Porter R. Taylor and Dr. L. M. Wilson of the U.S.D.A.; C. E. Chase and Reuben Benz from the Washington State Apple Advertising Commission; J. J. Willaman and H. H. Mottern of the Federal Research Laboratory at Philadelphia.

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The Ohio apple advertising bill, after being passed by the Senate earlier in the year, was held in Committee and never brought to the House floor. The session ended without passage of the bill. The Ohio Apple Institute immediately scheduled a meeting to decide what to do about advertising this year's crop.

Latest report on the efforts of Missouri growers to establish an apple advertising law shows that slow progress is being made in Legislature. It was thought that New York growers might attempt similar action but nothing definite has been done in this State so far. The Michigan State Apple Commission will advertise this season's crop for the first time since 1939 by means of a revenue of one cent a bushel from growers.

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Fruit and nut crops for the coming season will be plentiful, reports the U.S.D.A., because trees and fruit buds which were damaged by freezes and excessive rainfall were only in a few areas.

Peach production in the 10 early southern states promises to be the largest since 1931. Prospects for pears are somewhat variable. Pear and grape production in the Pacific Coast states is expected to be about average while somewhat less than an average crop of grapes is expected in the eastern areas.

Sour cherries in most eastern sections should be favorable. Lighter crops are expected in the western states though prospects for sweet cherries in the western area are more favorable than they are in the eastern sections. California plum production is expected to be about average. Prospects for fresh prunes in the Northwest are still indefinite but conditions on May 1 indicated that production probably will be smaller than last season though the dried prunes in the Pacific Coast states are expected to be more plentiful than last season.

Good-sized crops of apples are expected although it is too early for definite indications. April weather was favorable and no serious damage to trees or buds was reported.

THE SUPERIORITY

of

FRUITONE

as a pre-harvest drop spray

is a matter of actual record in many of the largest orchards in all sections of the country.

It is safe, economical and proven for all commercial varieties under all usual growing conditions.

Play safe! Order your supply of FRUITONE now.



DISTRIBUTED BY

CALIFORNIA SPRAY-CHEMICAL CORPORATION

"The ORTHO Company"

Elizabeth, N. J.

BUYER'S GUIDE FOR THE FRUIT FARM

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INSECT AND DISEASE CONTROL



DUSTING EQUIPMENT

Dusters

HAND

John Bean Mfg. Co., Lansing, Mich.
E. C. Brown Co., Rochester, N.Y.
Dobbins Mfg. Co., Elkhart, Ind.
A. B. Farquhar Co., Ltd., York, Pa.
H. D. Hudson Mfg. Co., Chicago, Ill.
Lake Erie Steel & Blanking Co., Cleveland, Ohio
Los Angeles Chemical Co., Los Angeles, Calif.
Messinger Mfg. Co., Tatamy, Pa.
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Nico-Dust Mfg. Co., Los Angeles, Calif.
Root Mfg. Co., Cleveland, Ohio
D. B. Smith & Co., Utica, N.Y.
Stauffer Chemical Co., New York, N.Y.
Edwin C. Tyson, Flora Dale, Pa.

POWER

Agicide Laboratories, Inc., Milwaukee, Wis.
American Cyanamid & Chemical Corp., Insecticide Dept., New York, N.Y.
John Bean Mfg. Co., Lansing, Mich.
A. B. Farquhar Co., Ltd., York, Pa.
"Friend" Mfg. Co., Gasport, N.Y.
Master Fan Corp., Los Angeles, Calif.
Messinger Mfg. Co., Tatamy, Pa.
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Root Mfg. Co., Cleveland, Ohio
Shunk Mfg. Co., Bucyrus, Ohio
Edwin C. Tyson, Flora Dale, Pa.

Mixers, Dust

Agicide Laboratories, Inc., Milwaukee, Wis.
"Friend" Mfg. Co., Gasport, N.Y.
Lake Erie Steel & Blanking Co., Cleveland, Ohio
Messinger Mfg. Co., Tatamy, Pa.
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Root Mfg. Co., Cleveland, Ohio
Shunk Mfg. Co., Bucyrus, Ohio

DUSTER News

Leading orchardists throughout the country are recognizing more each year the importance of supplementing their spray schedule with an efficient orchard duster. The new improved 1941 Root 5 H.P. Model is recognized as the leader in this type of equipment and is very popular throughout the country this year.

For complete information write the
Root Manufacturing Company
1311 W. 30th Street Cleveland, Ohio

DUSTING MATERIALS

Dust Fillers

Agicide Laboratories, Inc., Milwaukee, Wis.
American Lime & Stone Co., Bellefonte, Pa.
Calcium Carbonate Co., Chicago, Ill.
France Stone Co., Toledo, Ohio
Gibsonburg Lime Products Co., Gibsonburg, Ohio
Ohio Hydrate & Supply Co., Woodville, Ohio
United States Gypsum Co., Chicago, Ill.
Woodville Lime Products Co., Toledo, Ohio

Fluorine Dusts

Aluminum Ore Co., Pittsburgh, Pa.
Chipman Chemical Co., Inc., Bound Brook, N.J.
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
General Chemical Co., New York, N.Y.
Pennsylvania Salt Mfg. Co., Philadelphia, Pa.
Stauffer Chemical Co., New York, N.Y.

Lime

Aluminum Ore Co., Pittsburgh, Pa.
American Lime & Stone Co., Bellefonte, Pa.
France Stone Co., Toledo, Ohio
Gibsonburg Lime Products Co., Gibsonburg, Ohio
Kimbalton Lime Co., Inc., Shawsville, Va.
Marble Cliff Quarries Co., Columbus, Ohio
Ohio Hydrate & Supply Co., Woodville, Ohio
Scioto Lime & Stone Co., Delaware, Ohio
Tennessee Corp., Lockland, Ohio
United States Gypsum Co., Chicago, Ill.
Woodville Lime Products Co., Toledo, Ohio

Monohydrated Copper Sulphate Dusts

Ansbacher-Siegle Corp., Brooklyn, N.Y.
Bowker Chemical Co., New York, N.Y.
Chipman Chemical Co., Inc., Bound Brook, N.J.
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
General Chemical Co., New York, N.Y.

Interstate Chemical Mfg. Co., Reading, Pa.
McCormick & Co., Inc., Baltimore, Md.
Mechling Bros. Chemical Co., Camden, N.J.
Miller Chemical & Fertilizer Corp., Baltimore, Md.
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Phelps Dodge Refining Corp., New York, N.Y.
Sherwin-Williams Co., Cleveland, Ohio
J. W. Woolfolk Co., Ft. Valley, Ga.

Nicotine Dusts

Ansbacher-Siegle Corp., Brooklyn, N.Y.
Bowker Chemical Co., New York, N.Y.
California Spray-Chemical Corp., Richmond, Calif.
Chipman Chemical Co., Inc., Bound Brook, N.J.
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
E. I. du Pont de Nemours & Co., Inc., R. & H. Chemicals Dept., Pacific Div., El Monte, Calif.
General Chemical Co., New York, N.Y.
Interstate Chemical Mfg. Co., Reading, Pa.
McCormick & Co., Inc., Baltimore, Md.
Miller Chemical & Fertilizer Corp., Baltimore, Md.
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Nicotine Production Corp., Clarksville, Tenn.
Tobacco By-Products & Chemical Corp., Louisville, Ky.
J. W. Woolfolk Co., Ft. Valley, Ga.

Pyrethrum Dusts

Ansbacher-Siegle Corp., Brooklyn, N.Y.
Chipman Chemical Co., Inc., Bound Brook, N.J.
General Chemical Co., New York, N.Y.
Kalo Co., Quincy, Ill.
Kay-Fries Chemicals, Inc., New York, N.Y.
McCormick & Co., Inc., Baltimore, Md.
McLaughlin Gormley King Co., Inc., Minneapolis, Minn.
Mechling Bros. Chemical Co., Camden, N.J.
Micronizer Processing Co., Inc., Moorestown, N.J.
Miller Chemical & Fertilizer Corp., Baltimore, Md.
S. B. Penick & Co., New York, N.Y.
B. G. Pratt Co., New York, N.Y.
Stauffer Chemical Co., New York, N.Y.
J. W. Woolfolk Co., Ft. Valley, Ga.

Rotenone Dusts

Agicide Laboratories, Inc., Milwaukee, Wis.
Ansbacher-Siegle Corp., Brooklyn, N.Y.
Bowker Chemical Co., New York, N.Y.
Chipman Chemical Co., Inc., Bound Brook, N.J.
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
E. I. du Pont de Nemours & Co., Inc., R. & H. Chemicals Dept., Pacific Div., El Monte, Calif.
General Chemical Co., New York, N.Y.
Interstate Chemical Mfg. Co., Reading, Pa.
John Lucas Co., Philadelphia, Pa.
McCormick & Co., Inc., Baltimore, Md.
Mechling Bros. Chemical Co., Camden, N.J.
Micronizer Processing Co., Inc., Moorestown, N.J.
Miller Chemical & Fertilizer Corp., Baltimore, Md.
National Sulphur Co., Inc., New York, N.Y.
Naugatuck Chemical Div., United States Rubber Co., New York, N.Y.
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
S. B. Penick & Co., New York, N.Y.
Sherwin-Williams Co., Cleveland, Ohio
Stauffer Chemical Co., New York, N.Y.
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Will control most insects that attack your crops. Yet it will not, in any concentration, burn, discolor, or injure the most delicate buds or blossoms, fruits, flowers or foliage.

Nor will it harm cattle who may lick foliage so treated, or who may graze in orchards sprayed with Cream of Agicide.

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CREAM OF AGICIDE and DUST OF AGICIDE

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Bowker Chemical Co., New York, N.Y.
Chipman Chemical Co., Inc., Bound Brook, N.J.
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
E. I. du Pont de Nemours & Co., Inc., R. & H. Chemicals Dept., Pacific Div., El Monte, Calif.
General Chemical Co., New York, N.Y.
Interstate Chemical Mfg. Co., Reading, Pa.
Koppers Co., Tar and Chemical Div., Pittsburgh, Pa.
John Lucas Co., Philadelphia, Pa.
McCormick & Co., Inc., Baltimore, Md.
Mechling Bros. Chemical Co., Camden, N.J.
Merrimac Chemical Co., Everett, Mass.
Micronizer Processing Co., Inc., Moorestown, N.J.
Miller Chemical & Fertilizer Corp., Baltimore, Md.
National Sulphur Co., Inc., New York, N.Y.
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Sherwin-Williams Co., Cleveland, Ohio
South Haven Chemical Co., South Haven, Mich.
Stauffer Chemical Co., New York, N.Y.
J. W. Woolfolk Co., Ft. Valley, Ga.

Tri-Basic Copper Sulphate Dusts

General Chemical Co., New York, N.Y.
Miller Chemical & Fertilizer Corp., Baltimore, Md.
Sherwin-Williams Co., Cleveland, Ohio
Tennessee Corp., Atlanta, Ga.

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M. H. Hunt & Son, Lansing, Mich.
M. A. Koeller, Barry, Ill.
Miller Chemical & Fertilizer Corp., Baltimore, Md.
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Rice, Trew & Rice Co., Biglerville, Pa.
Tanglefoot Co., Grand Rapids, Mich.
Edwin C. Tyson, Flora Dale, Pa.

Beta Naphthol

American Cyanamid & Chemical Corp., Insecticide Dept., New York, N.Y.
Braun-Knecht-Heimann-Co., San Francisco, Calif.
Sherwin-Williams Co., Cleveland, Ohio

Brush Burners

Aeroil Burner Co., Inc., West New York, N.J.
E. C. Brown Co., Rochester, N.Y.
Dobbins Mfg. Co., Elkhart, Ind.
Hauck Mfg. Co., Brooklyn, N.Y.
Ker-O-Kil Mfg. Co., San Francisco, Calif.

Brush Cutters

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Bartlett Mfg. Co., Detroit, Mich.
Killefer Mfg. Corp., Ltd., Los Angeles, Calif.
A. M. Leonard & Son, Piqua, Ohio
Mitts & Merrill, E. Saginaw, Mich.
Seymour Smith & Son, Inc., Oakville, Conn.
Carroll R. Tiffany, Conklin, N.Y.
J. Wiss & Sons Co., Newark, N.J.

Calcium Chloride

American Cyanamid & Chemical Corp., New York, N.Y.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
General Chemical Co., New York, N.Y.
Harshaw Chemical Co., Cleveland, Ohio
Merck & Co., Inc., Rahway, N.J.
Pennsylvania Salt Mfg. Co., Philadelphia, Pa.
Solvay Sales Corp., New York, N.Y.
Stauffer Chemical Co., New York, N.Y.
Texas Co., New York, N.Y.

INSECT AND DISEASE CONTROL

Ethylene Dichloride

Carbide & Carbon Chemicals Corp., New York, N.Y.
Fred Durand, Woodbury, Ga.
General Chemical Co., New York, N.Y.
McKenzie Chemical Co., Montezuma, Ga.
Miller Chemical & Fertilizer Corp., Baltimore, Md.
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
G. S. Robins Co., St. Louis, Mo.
J. W. Woolfolk Co., Ft. Valley, Ga.

Glutrin

Robeson Process Co., New York, N.Y.

Insect Barriers

California Spray-Chemical Corp., Richmond, Calif.
Interstate Chemical Mfg. Co., Reading, Pa.
Standard Oil Co. of Indiana, Chicago, Ill.
Tanglefoot Co., Grand Rapids, Mich.

Insect Electrocuters

Alert Electric Door Control Co., Los Angeles, Calif.
Chicago Electric Scientific Co., Chicago, Ill.
Insect Electrocuter Co., Cincinnati, Ohio
International Sales Co., Chicago, Ill.
Monolite Co., Berkeley, Calif.
Mortene Laboratories, Chicago, Ill.

Rodent Destroyers

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Remington Arms Co., Inc., Bridgeport, Conn.
Savage Arms Co., New York, N.Y.
Winchester Repeating Arms Co., New Haven, Conn.

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Antrol Laboratories, Inc., Los Angeles, Calif.
General Chemical Co., New York, N.Y.
K-R-O Co., Springfield, Ohio
Mallinckrodt Chemical Works, St. Louis, Mo.
Rat Biscuit Co., Springfield, Ohio
Rose Rat Exterminator Co., Chicago, Ill.
D. B. Smith & Co., Inc., Utica, N.Y.

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Animal Trap Co. of America, Lititz, Pa.
Antrol Laboratories, Inc., Los Angeles, Calif.
Michigan Wire Goods Co., Niles, Mich.

Rodent Repellents

Castle Chemical Co., Castle Rock, Minn.
Clarion Development Co., Inc., Clarion, Pa.
Hammond Paint & Chemical Co., Beacon, N.Y.
J. Livingstone, Jr., Milwaukee, Wis.
Rollin H. Tabor, Mt. Vernon, Ohio
Tanglefoot Co., Grand Rapids, Mich.

Scrapers, Bark

Bartlett Mfg. Co., Detroit, Mich.
Fruit Packing Equipment Co., Swoope, Va.
A. M. Leonard & Son, Piqua, Ohio
Carroll R. Tiffany, Conklin, N.Y.
Edwin C. Tyson, Flora Dale, Pa.

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Bartlett Mfg. Co., Detroit, Mich.
Clarion Development Co., Inc., Clarion, Pa.
Flintkote Co., New York, N.Y.
Joseph A. Fraim Co., Inc., Norfolk, Va.
M. H. Hunt & Son, Lansing, Mich.
Interstate Chemical Mfg. Co., Reading, Pa.
A. M. Leonard & Son, Piqua, Ohio

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Brown Fence & Wire Co., Cleveland, Ohio
Chase Bag Co., Chagrin Falls, Ohio
Kitselman Bros., Muncie, Ind.

Weed Killers

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Aerol Burner Co., Inc., West New York, N.J.
E. C. Brown Co., Rochester, N.Y.
Dobbins Mfg. Co., Elkhart, Ind.
Hauck Mfg. Co., Brooklyn, N.Y.
Ker-O-Kil Mfg. Co., San Francisco, Calif.

CHEMICALS

California Spray-Chemical Corp., Richmond, Calif.
Chipman Chemical Co., Inc., Bound Brook, N.J.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Inc., Grasselli Chemicals Dept., Wilmington, Del.
General Chemical Co., New York, N.Y.
James Good, Inc., Philadelphia, Pa.
Harshaw Chemical Co., Cleveland, Ohio
Interstate Chemical Mfg. Co., Reading, Pa.
Mallinckrodt Chemical Works, St. Louis, Mo.
Mereck & Co., Inc., Rahway, N.J.
Miller Chemical & Fertilizer Corp., Baltimore, Md.
Pennsylvania Salt Mfg. Co., Philadelphia, Pa.
Sherwin-Williams Co., Cleveland, Ohio
Standard Agricultural Chemicals, Inc., Hoboken, N.J.
Stauffer Chemical Co., Inc., New York, N.Y.
Edwin C. Tyson, Flora Dale, Pa.
Wheeler, Reynolds & Stauffer, San Francisco, Calif.

SPRAYING EQUIPMENT

Spray Accessories

GUNS

John Bacon Inc., Gasport, N.Y.
John Bean Mfg. Co., Lansing, Mich.
Deming Co., Salem, Ohio
Dobbins Mfg. Co., Elkhart, Ind.
Double Twirler Spray Nozzle Corp., Red Hook, N.Y.
Eureka Mower Co., Utica, N.Y.
A. B. Farquhar Co., Ltd., York, Pa.
Field Force Mfg. Co., Pottstown, Pa.
"Friend" Mfg. Co., Gasport, N.Y.
W. L. Hamilton & Co., Bangor, Mich.
Hardie Mfg. Co., Hudson, Mich.
H. D. Hudson Mfg. Co., Chicago, Ill.
F. E. Myers & Bro. Co., Ashland, Ohio
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Sprayer Supply Mfg. Co., Grand Rapids, Mich.
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Universal Power Sprayer Co., Inc., Plymouth, Mich.
Windmaster Spray Gun Co., Hood River, Ore.

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Campbell & Budlong Machine Works, San Jose, Calif.
Continental Rubber Works, Erie, Pa.
Deming Co., Salem, Ohio
Dobbins Mfg. Co., Elkhart, Ind.
Electric Hose & Rubber Co., Wilmington, Del.
A. B. Farquhar Co., Ltd., York, Pa.
Field Force Mfg. Co., Pottstown, Pa.
"Friend" Mfg. Co., Gasport, N.Y.
B. F. Goodrich Co., Akron, Ohio
Goodyear Tire & Rubber Co., Akron, Ohio
Hardie Mfg. Co., Hudson, Mich.
A. M. Leonard & Son, Piqua, Ohio
Manhattan Rubber Mfg. Co., Passaic, N.J.
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Quaker Rubber Corp., Philadelphia, Pa.
Republic Rubber Div., Lee Rubber & Tire Corp., Youngstown, Ohio
Sprayer Supply Mfg. Co., Grand Rapids, Mich.
Edwin C. Tyson, Flora Dale, Pa.
United States Rubber Co., New York, N.Y.
Universal Power Sprayer Co., Inc., Plymouth, Mich.

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ANY LENGTH—ANY PRESSURE TO 1,000 POUNDS

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John Bean Mfg. Co., Lansing, Mich.
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Double Twirler Spray Nozzle Corp., Red Hook, N.Y.
A. B. Farquhar Co., Ltd., York, Pa.
Field Force Mfg. Co., Pottstown, Pa.
"Friend" Mfg. Co., Gasport, N.Y.
W. L. Hamilton & Co., Bangor, Mich.
Hardie Mfg. Co., Hudson, Mich.
H. D. Hudson Mfg. Co., Chicago, Ill.
McClain Brothers Co., Canton, Ohio
F. E. Myers & Bro. Co., Ashland, Ohio
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Robey Mfg. Co., East Lansing, Mich.
D. B. Smith & Co., Utica, N.Y.
Sprayer Supply Mfg. Co., Grand Rapids, Mich.
Edwin C. Tyson, Flora Dale, Pa.
Universal Power Sprayer Co., Inc., Plymouth, Mich.

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Dobbins Mfg. Co., Elkhart, Ind.
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Field Force Mfg. Co., Pottstown, Pa.
Frick Company, Waynesboro, Pa.
"Friend" Mfg. Co., Gasport, N.Y.
W. L. Hamilton & Co., Bangor, Mich.
Hardie Mfg. Co., Hudson, Mich.
F. E. Myers & Bro. Co., Ashland, Ohio
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Sprayer Supply Mfg. Co., Grand Rapids, Mich.
Edwin C. Tyson, Flora Dale, Pa.
Universal Power Sprayer Co., Inc., Plymouth, Mich.

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John Bean Mfg. Co., Lansing, Mich.
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Dobbins Mfg. Co., Elkhart, Ind.
Eureka Mower Co., Utica, N.Y.
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Field Force Mfg. Co., Pottstown, Pa.
"Friend" Mfg. Co., Gasport, N.Y.
W. L. Hamilton & Co., Bangor, Mich.
Hardie Mfg. Co., Hudson, Mich.
Messmer Brass Co., St. Louis, Mo.
F. E. Myers & Bro. Co., Ashland, Ohio
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Sprayer Supply Mfg. Co., Grand Rapids, Mich.
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2000° F. controlled heat quickly, easily, economically destroys weeds (seeds and all), poison ivy, brush, diseased trees and other objectionable growths. Keeps roadways, fences, irrigation ditches, orchards, etc., clean. Hundred uses around orchard and farm. Burns kerosene. Inexpensive—safe—easy to use. 10 day trial. 7 popular-priced models. Write for free catalog and prices.
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M-3

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John Bean Mfg. Co., Lansing, Mich.
Broadway Rubber Mfg. Co., Louisville, Ky.
Campbell & Budlong Machine Works, San Jose, Calif.
Campbell-Hausfeld Co., Harrison, Ohio
Central Brass Co., Cleveland, Ohio
Clark Spray Machine Co., Hartford, Ohio
Deming Co., Salem, Ohio
Dobbins Mfg. Co., Elkhart, Ind.
Electric Hose & Rubber Co., Wilmington, Del.
A. B. Farquhar Co., Ltd., York, Pa.
Field Force Mfg. Co., Pottstown, Pa.
"Friend" Mfg. Co., Gasport, N.Y.
Goodall Rubber Co., Philadelphia, Pa.
B. F. Goodrich Co., Akron, Ohio
Goodyear Tire & Rubber Co., Akron, Ohio
W. L. Hamilton & Co., Bangor, Mich.
Hardie Mfg. Co., Hudson, Mich.
C. B. Hunt & Son, Salem, Ohio
A. M. Leonard & Son, Piqua, Ohio
F. E. Myers & Bro. Co., Ashland, Ohio
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Northwest Irrigation Co., Antio, Wis.
Skinner Irrigation Co., Troy, Ohio
D. B. Smith & Co., Utica, N.Y.
Sprayer Supply Mfg. Co., Grand Rapids, Mich.
B. C. Tillinghast Rubber Co., Philadelphia, Pa.
Edwin C. Tyson, Flora Dale, Pa.
United States Rubber Co., New York, N.Y.
Universal Power Sprayer Co., Inc., Plymouth, Mich.

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GOGGLES

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Chicago Eye Shield Co., Chicago, Ill.
H. S. Cover, South Bend, Ind.
Mine Safety Appliances Co., Pittsburgh, Pa.
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Pulmosan Safety Equipment Corp., Brooklyn, N.Y.
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Pulmosan Safety Equipment Corp., Brooklyn, N.Y.
Willson Products, Inc., Reading, Pa.

SKIN PROTECTIVES

Chesebrough Mfg. Co., New York, N.Y.
Edwin C. Tyson, Flora Dale, Pa.
Valvoline Oil Co., Cincinnati, Ohio

INSECT AND DISEASE CONTROL

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New Departure Mfg. Co., Detroit, Mich.
SKF Industries, Inc., Philadelphia, Pa.
Timken Roller Bearing Co., Canton, Ohio

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John Bean Mfg. Co., Lansing, Mich.
Briggs & Stratton Corp., Milwaukee, Wis.
J. I. Case Co., Racine, Wis.
Caterpillar Tractor Co., Peoria, Ill.
Cushman Motor Works, Lincoln, Nebr.
John Deere, Moline, Ill.
Dempster Mill Mfg. Co., Beatrice, Nebr.
Fairbanks, Morse & Co., Chicago, Ill.
A. B. Farquhar Co., Ltd., York, Pa.
Field Force Mfg. Co., Pottstown, Pa.
Frick Company, Waynesboro, Pa.
"Friend" Mfg. Co., Gasport, N.Y.
Hardie Mfg. Co., Hudson, Mich.
Hercules Motors Corp., Canton, Ohio
International Harvester Co., Chicago, Ill.
Le Roi Co., Milwaukee, Wis.
Minneapolis-Moline Power Implement Co., Minneapolis, Minn.
F. E. Myers & Bro. Co., Ashland, Ohio
Nelson Bros. Co., Saginaw, Mich.
New-Way Engine Co., Lansing, Mich.
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Novo Engine Co., Lansing, Mich.
Oliver Farm Equipment Sales Co., Chicago, Ill.
Palmer Bros., Cos Cob, Conn.
Stover Mfg. & Engine Co., Freeport, Ill.
Universal Power Sprayer Co., Inc., Plymouth, Mich.
Waukesha Motor Co., Waukesha, Wis.
Witte Engine Works, Inc., Kansas City, Mo.
Worthington Pump & Machinery Co., Buffalo, N.Y.

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Briggs & Stratton Corp., Milwaukee, Wis.
Cushman Motor Works, Lincoln, Nebr.
Fairbanks, Morse & Co., Chicago, Ill.
Hercules Motor Corp., Canton, Ohio
Stover Mfg. & Engine Co., Freeport, Ill.

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John Bean Mfg. Co., Lansing, Mich.
A. B. Farquhar Co., Ltd., York, Pa.
Field Force Mfg. Co., Pottstown, Pa.
Frick Company, Waynesboro, Pa.
"Friend" Mfg. Co., Gasport, N.Y.
Hardie Mfg. Co., Hudson, Mich.
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
F. E. Myers & Bro. Co., Ashland, Ohio
Niagara Sprayer & Chemical Co., Inc., Middleport, N.Y.
Universal Power Sprayer Co., Inc., Plymouth, Mich.

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Firestone Tire & Rubber Co., Akron, Ohio
Fisk Tire Plant, Division of U.S. Tire Dealers Corp., Chicopee Falls, Mass.
General Tire & Rubber Co., Akron, Ohio
Gillette Rubber Co., Eau Claire, Wis.
B. F. Goodrich Co., Akron, Ohio
Goodyear Tire & Rubber Co., Inc., Akron, Ohio
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AMERICAN FRUIT GROWER

PAGE 23



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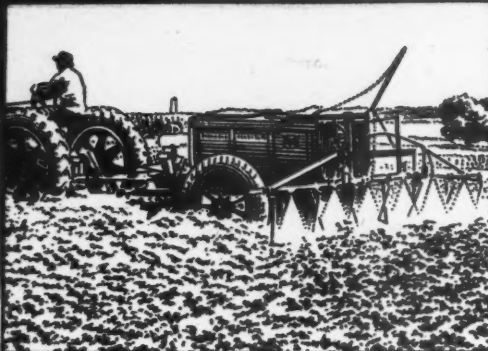
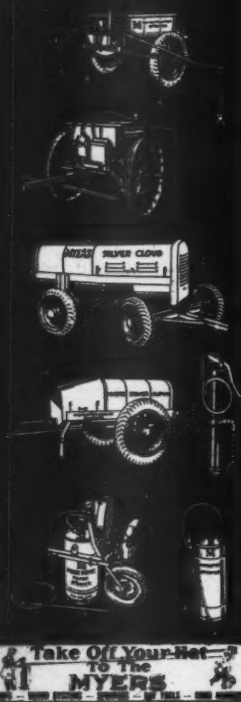
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Field Force Mfg. Co., Pottstown, Pa.
"Friend" Mfg. Co., Gasport, N.Y.
Hardie Mfg. Co., Hudson, Mich.
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A. M. Leonard & Son, Piqua, Ohio
F. E. Myers & Bro. Co., Ashland, Ohio
Niagara Sprayer & Chem. Co., Middleport, N.Y.
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Sprayer Supply Mfg. Co., Grand Rapids, Mich.
Edwin C. Tyson, Flora Dale, Pa.

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Eureka Mower Co., Utica, N.Y.
A. B. Farquhar Co., Ltd., York, Pa.
Field Force Mfg. Co., Pottstown, Pa.
"Friend" Mfg. Co., Gasport, N.Y.
Hardie Mfg. Co., Hudson, Mich.
Love Tractor, Inc., Eau Claire, Mich.
McClain Brothers Co., Canton, Ohio
F. E. Myers & Bro. Co., Ashland, Ohio
Niagara Sprayer & Chem. Co., Middleport, N.Y.
Edwin C. Tyson, Flora Dale, Pa.
Universal Power Sprayer Co., Plymouth, Mich.

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Hardie Mfg. Co., Hudson, Mich.
F. E. Myers & Bro. Co., Ashland, Ohio
Universal Power Sprayer Co., Plymouth, Mich.

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Field Force Mfg. Co., Pottstown, Pa.
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Corona Chemical Div. of Pittsburgh Plate Glass Co., Milwaukee, Wis.
Dow Chemical Co., Midland, Mich.
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General Chemical Co., New York, N.Y.
Interstate Chemical Mfg. Co., Reading, Pa.
Mechling Bros. Chemical Co., Camden, N.J.
Micronizer Processing Co., Inc., Moorestown, N.J.
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Chipman Chemical Co., Inc., Bound Brook, N.J.
Corona Chemical Div. of Pittsburgh Plate Glass Co., Milwaukee, Wis.
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General Chemical Co., New York, N.Y.
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General Chemical Co., New York, N.Y.
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Sherwin-Williams Co., Cleveland, Ohio
Stauffer Chemical Co., New York, N.Y.
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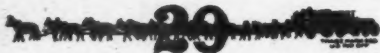
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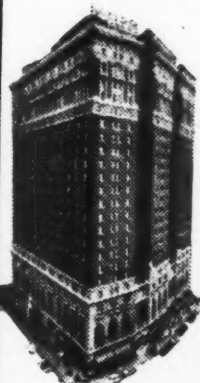
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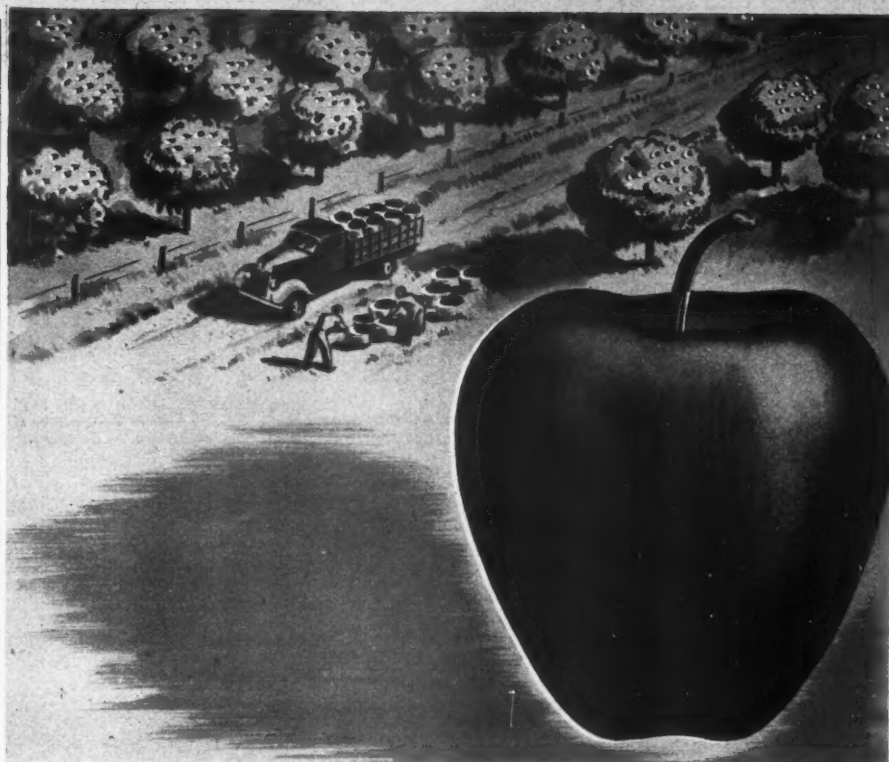
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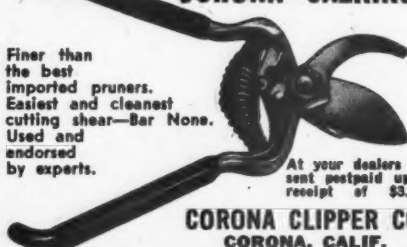
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Narrow head—slender gooseneck—the smartest thing in the grove—a pruner built for fast work in citrus, peach and pecan trees. Light action, two sharp blades cut without damaging bark or crushing fibres.

Tell your dealer you want a Porter Gooseneck Pruner. Write for catalog of Porter Pruners.

H. K. PORTER, Inc. Everett, Mass.

JUNE, 1941

NURSERY



STOCK

Fruit Trees

Ackerman Nursery, Bridgman, Mich.
Allen's Nurseries & Seed House, Geneva, Ohio
Andrews Nursery Co., Faribault, Minn.
Armstrong Nurseries, Ontario, Calif.
O. A. D. Baldwin Nursery, Bridgman, Mich.
Benton County Nursery Co., Rogers, Ark.
W. A. Bents Nurseries, Cresco, Iowa
Bountiful Ridge Nurseries, Princess Anne, Md.
Bradley Brothers, Carbondale, Ill.
Bridgman Nursery Co., Bridgman, Mich.
Buntings' Nurseries, Inc., Selbyville, Del.
C. R. Burr & Co., Manchester, Conn.
California Nursery Co., Niles, Calif.
Call's Nurseries, Perry, Ohio
Carlton Nursery Co., Carlton, Ore.
Champion Nurseries, Perry, Ohio
Chase Brothers Co., Geneva, N.Y.
Chattanooga Nurseries, Chattanooga, Tenn.
Cole Nursery Co., Painesville, Ohio
Columbia & Okanogan Nursery Co., Wenatchee, Wash.

Condon Bros. Seedsmen, Rockford, Ill.
Daniels Nursery, Inc., Long Lake, Minn.
Dunham's Grand Mere Nurseries, Baroda, Mich.
Emlong's Nursery, Stevensville, Mich.
Glen St. Mary Nurs. Co., Glen St. Mary, Fla.
Grand Island Nurseries, Eustis, Fla.
Greening Nursery Co., Monroe, Mich.
Griffin Nurseries, Beaumont, Texas
Carl A. Hansen Nursery, Brookings, S.D.
Harrisons' Nurseries, Berlin, Md.
Hill Top Orchard & Nurseries, Hartford, Mich.
Hood's Old Dominion Nurseries, Richmond, Va.
Howard-Hickory Nurseries, Hickory, N.C.
I. E. Ilgenfritz Sons Co., Monroe, Mich.
Inter-State Nurseries, Hamburg, Iowa
E. W. Jones Nursery Co., Woodlawn, Va.
J. F. Jones Nurseries, Lancaster, Pa.
R. M. Kellogg Co., Three Rivers, Mich.
Kelly Bros. Nurseries, Danville, N.Y.
Krider Nurseries, Inc., Middlebury, Ind.
Lake's Shenandoah Nurseries, Shenandoah, Ia.
Maloney Bros. Nursery Co., Danville, N.Y.
Markham's Nursery, Xenia, Ill.
May Nursery Co., Yakima, Wash.
Thomas B. Meehan Co., Dresher, Pa.
Milton Nursery Co., Milton, Ore.
George A. Morse, Williamson, N.Y.
Mount Arbor Nurseries, Shenandoah, Iowa
New Jersey Peach Council, Princeton, N.J.
Nut Tree Nurseries, Downingtown, Pa.
W. N. Scarff's Sons, New Carlisle, Ohio
Smith Bros. Nursery Co., Concord, Ga.
South Michigan Nursery, New Buffalo, Mich.
F. C. Stahelin & Son, Bridgman, Mich.
Stark Bro's Nurseries & Orchards Co., Louisiana, Mo.
Storrs & Harrison, Painesville, Ohio
E. W. Townsend Sons, Salisbury, Md.
Vienna Nursery, Vienna, Ill.
Wathena Nurseries, Wathena, Kans.
Waynesboro Nurseries, Waynesboro, Va.
T. B. West & Son, Perry, Ohio
West Hill Nurseries, Fredonia, N.Y.
White Rose Seed & Nursery Co., York, Pa.

Fruit Trees, Dwarf

Kelly Bros. Nurseries, Danville, N.Y.
Henry Leuthardt, Port Chester, N.Y.
Maloney Bros. Nursery Co., Danville, N.Y.
W. N. Scarff's Sons, New Carlisle, Ohio
Storrs & Harrison, Painesville, Ohio
U. S. Espalier Nursery Co., Inc., Portland, Ore.
T. B. West & Son, Perry, Ohio

Rootstock Material

California Nursery Co., Niles, Calif.
Robert M. Clark, Mitchellville, Iowa
Greening Nursery Co., Monroe, Mich.
House of Gurney, Inc., Yankton, S.D.
Mount Arbor Nurseries, Shenandoah, Iowa
Virginia Tree Farms, Woodlawn, Va.
A. Willis & Co., Ottawa, Kans.

Small Fruits and Grape Vines

Ackerman Nursery, Bridgman, Mich.
W. F. Allen Co., Salisbury, Md.
Allen's Nurseries & Seed House, Geneva, Ohio
Andrews Nursery Co., Faribault, Minn.
Anna Strawberry Nursery, Anna, Ill.
O. A. D. Baldwin Nursery, Bridgman, Mich.
V. P. Basham, Mountaintop, Ark.
Benton County Nursery Co., Rogers, Ark.
W. A. Bents Nurseries, Cresco, Iowa
J. C. Black, Powell Station, Tenn.
Bountiful Ridge Nurseries, Princess Anne, Md.
Boysenberry Plantation, Lapeer, Mich.
Fred Braden, Waysata, Minn.
Bradley Bros., Carbondale, Ill.
Buntings' Nurseries, Inc., Selbyville, Del.
Burr Nurseries, Manchester, Conn.
California Nursery Co., Niles, Calif.
Call's Nurseries, Perry, Ohio
Cavaness Nursery, Jonesboro, Ill.
Champion Nurseries, Perry, Ohio
Chattanooga Nurseries, Chattanooga, Tenn.

JUNE, 1941

Cash IN ON THE
Growing DEMAND FOR
Fruit!

"IN NATIONAL DEFENSE
—Fruit is the Ammunition of Health"

The interest of the nation is aroused—the attention of the whole country is focused upon the nutritional and health value of fruit. U. S. Gov't. officials say: "the first job of National Defense is to make our citizens physically fit"—the Dept. of Agri. says: "plenty of fresh fruit and vegetables are needed... A golden day is dawning for orchardists—this great revival of interest in the dietary value of fruit will tremendously increase fruit consumption, create bigger demand and HIGHER PRICES. Now as never before growers of quality fruits can reap rich rewards."

Plant Stark Young and Heavy Bearing Quick Profit-Makers

Buy trees as you would buy "blooded" livestock—Stark Record-Bearing—Strain Fruit Trees—NEW, Exclusive U. S. Patent varieties that give assurance of quickest, greatest yields and profits—STARKING, new, Improved Double-Red Delicious, King of All Red Apples, first on the market at Top Prices—GOLDEN DELICIOUS, Queen of All Yellow Apples, greatest profit-maker of all—the fine-flavored favorite of millions. Extremely hardy. 33 states report bearing in 2 years.

STARK BRO'S NURSERIES
BOX B-61, Louisiana, MISSOURI
Largest in the World—Oldest in America



\$82.00 in 2 Weeks

SELLING STARK TREES

Charles Willig of Ohio took advantage of the GOOD-INCOME Opportunity Stark offers in the pleasant, healthful occupation of taking orders for Stark Trees, Shrubs and Roses. In two weeks his gross CASH EARNINGS were \$82.09. This profitable opportunity is open to you too—no investment—no experience needed to start—work spare time or full time. Cash paid weekly. Stark's reputation and Exclusive Fruit and Ornamental varieties make it EASY to take orders. Check Coupon NOW for our LIBERAL WEEKLY CASH INCOME PLAN.

Cole Nursery Co., Painesville, Ohio
Columbia & Okanogan Nursery Co., Wenatchee, Wash.

Condon Bros. Seedsmen, Rockford, Ill.
Daniels Nursery, Inc., Long Lake, Minn.
Dunham's Grand Mere Nurseries, Baroda, Mich.
Emlong's Nursery, Stevensville, Mich.
Fish & Bond, Eugene, Ore.
Franklin County Nurseries, Greenfield, Mass.
Russell Brothers, Teachey, N.C.
F. A. Guernsey & Co., Inc., Schoharie, N.Y.
W. Halbert, Oxford, N.Y.
Carl A. Hansen Nursery, Brookings, S.D.
Harrisons' Nurseries, Berlin, Md.
Fred Hazelton, LeRoy, N.Y.
Hill Top Orchards & Nurseries, Hartford, Mich.
Howard-Hickory Co., Hickory, N.C.
I. E. Ilgenfritz Sons Co., Monroe, Mich.
L. E. Ingoldby Nursery, Lindsay, Calif.
Inter-State Nurseries, Hamburg, Iowa
J. W. Jones & Son, Franklin, Va.
T. Kasuga and Son, Sandy, Utah
Dr. Keefe's Blueberry Plantation, Grand Junction, Mich.

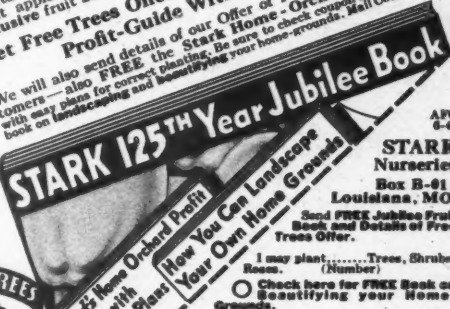
Keith Plant Nursery, Sawyer, Mich.
R. M. Kellogg Co., Three Rivers, Mich.
Kelly Bros. Nurseries, Danville, N.Y.
John Lightfoot, Birchwood, Tenn.
Maloney Bros. Nursery Co., Inc., Danville, N.Y.
Markham's Nursery, Xenia, Ill.
R. R. McUmber, Greenfield, Tenn.
J. E. Miller Grape Nursery, Naples, N.Y.
George A. Morse, Williamson, N.Y.
Perkins Bros., St. Paul, Minn.
Pinecrest Gardens, Champlin, Minn.
Rayner Bros., Salisbury, Md.
C. H. Rochelle, Kenton, Tenn.
E. L. Russell, Jonesville, Va.
W. N. Scarff's Sons, New Carlisle, Ohio
Shelby Plant Farms, Memphis, Tenn.
J. H. Shivers Plant Farms, Allen, Md.
South Michigan Nurs., New Buffalo, Mich.
Spring Hill Nurseries, Tippecanoe City, Ohio
F. C. Stahelin & Son, Bridgman, Mich.
Stark Bro's Nurseries & Orchards Co., Louisiana, Mo.

Storrs & Harrison, Painesville, Ohio
Ten Dyke's Blueberry Farm, Grand Junction, Mich.
E. W. Townsend Sons, Salisbury, Md.
Vienna Nursery, Vienna, Ill.
Waller Brothers, Judsonia, Ark.
Waynesboro Nurseries, Waynesboro, Va.
West Hill Nurseries, Fredonia, N.Y.
T. B. West & Son, Perry, Ohio
AMERICAN FRUIT GROWER

FREE Big, New 125th Year Jubilee Book
—Fruit also shows and tells about the world-famous BURBANK JULY ELBERTA Peach (New, U. S. Pat.), brilliant red-and-gold freestone on the market at Premium Prices 20 days before Elberta—HALL-BERTA GIANT (World's First Patented Peach)—new Profit apples, JONARED and STAYMARED—and scores of other exclusive fruit and ornamental varieties—sold only by Stark.

Get Free Trees Offer—Also FREE Home-Orchard Profit-Guide With Planting Plans

We will also send details of our Offer of Free Trees to Stark customers with may plans for correct planting. Be sure to check coupon also to get FREE book on landscaping and beautifying your home-grounds. Mail Coupon NOW.



Name _____
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P. O. _____
If you are interested in selling check here for FREE details of our NEW Liberal Weekly INCOME PLAN for Salesmen

NUT TREES: List includes Black walnut, Heartnut, English walnut, Filbert, Chestnut, Hickory, and Cherry trees. (descriptive catalog free) 44 years growing trees. J. F. JONES NURSERIES Dept. A-641 Lancaster, Pa.

A COMPLETE LINE OF NURSERY STOCK

Direct to the planter at rock bottom prices. The best in Strawberries, Blackberries, Raspberries, Boysenberries, Blueberries, Grape Vines, Fruit and Ornamental Trees, Evergreens, Roses, Perennials and Flowering Bulbs. Write for our free catalog.

THE ACKERMAN NURSERIES
Box AF, Bridgman, Mich.

94 Years Of SERVICE

Proven adaptability for your supply of fruit trees, shrubs, vines, and ornamentals from stock in E. F. Ilgenfritz Sons Co., Monroe, Michigan

ILGENFRITZ MONROE NURSERY

Strawberry Plants

Millions of Yellow Free Blakemore, Aroms, and Missionary. All other leading varieties. All plants New Ground Grown and have passed inspection. Satisfaction Guaranteed.

John Lightfoot, Birchwood, Tenn.

STRAWBERRIES
PAY Allen's 1941 Berry-Book Describes Best Methods, Plants, Varieties: Shipping Season Nov. 1 to May 1. COPY FREE WRITE TODAY THE W. F. ALLEN CO. 22 Evergreen Ave., Salisbury, Md. PAGE 33

New Fruit Power Makes the Most of Every Man Hour



**Fits New Future
in Fruit**

**22 New
Conveniences**

Of course there's a future in fruit ... for men who put up a finer pack and who produce it at lower cost. And here's new power to help you do just that ... to do your tree-tending more thoroughly, more promptly ... and do it with less manpower.

Until you settle into the roomy, deep-cushioned seat of this Case "SO" tractor and take hold of its controls, you'll never know how handy, how comfortable orchard power can be. Only after you actually work with the "SO" would you believe it possible to cover so many acres with a 2-plow tractor and still feel fresh and fit at the end of the day.

A brand-new Case engine brings you the same lugging, tugging power you have come to expect from a Case, but now smoother, more flexible than ever. The "SO" pulls just as strong,

just as steady below half-speed as at full speed. With its wide-range governor control, its new toe-touch assisting brakes, and the famous Case full-swinging, self-locking drawbar, you can make short turns with full load and seldom or never shift gears or touch the clutch. New anti-friction finger-touch steering with no-play linkage is easier than ever. Spinner knob aids fast one-hand turning.

In the "SO" you get four gears forward—three speeds to take full advantage of traction weight and engine power with every implement and in every condition ... plus a fast fourth speed for hauling and for quick moves from job to job. You get a centered power take-off at the right height for operating a spray rig. See the "SO," also the latest in orchard implements, at your Case dealer's now. See how much easier orchard work can be!

10 New Tractors . . . 3 Sizes for Orchards

Other orchard models are the new 1-2 plow "VO" and the 3-plow "DO," all with 4 speeds forward and Fuel-Miser carburetion. Also all-purpose type and standard four-wheelers in sizes up to 4-5 plow.

**Mail This . . . If You Want to Grow
Better Fruit with Less Work**

It pays to know what's new in orchard power and implements. Mark below items that interest you; mail to J. I. Case Co., Dept. F-12, Racine, Wis., or nearest branch.

- | | |
|--|---|
| <input type="checkbox"/> 2-Plow "SO" Tractor | <input type="checkbox"/> Orchard Tractor Plows |
| <input type="checkbox"/> 3-Plow "DO" Tractor | <input type="checkbox"/> Offset & Tandem Disk Harrows |
| <input type="checkbox"/> 1-2 Plow "VO" Tractor | <input type="checkbox"/> Spring-Tooth Harrows |

Name _____

Address _____

Fruit Acreage _____

CASE

FENCING AND TRELLISES

Augers, Post Hole

Brown Fence & Wire Co., Cleveland, Ohio
Iwan Bros., South Bend, Ind.
Kitselman Bros., Muncie, Ind.

Diggers

Henry Diaston & Sons, Inc., Philadelphia, Pa.
Iwan Bros., South Bend, Ind.
Kitselman Bros., Muncie, Ind.

Gates

American Steel & Wire Co., Cleveland, Ohio
Anchor Post Fence Co., Baltimore, Md.
Brown Fence & Wire Co., Cleveland, Ohio
Continental Steel Corp., Kokomo, Ind.
Cyclone Fence Co., Waukegan, Ill.
Interlocking Fence Co., Morton, Ill.
Kitselman Bros., Muncie, Ind.
Wickwire Spencer Steel Co., New York, N.Y.

Posts

Brown Fence & Wire Co., Cleveland, Ohio
Calumet Steel Co., Chicago, Ill.
Interlocking Fence Co., Morton, Ill.
Kitselman Bros., Muncie, Ind.
Page Steel & Wire Div., American Chain Co., Inc., Monessen, Pa.

Wire

American Steel & Wire Co., Cleveland, Ohio
Bethlehem Steel Co., Bethlehem, Pa.
Brown Fence & Wire Co., Cleveland, Ohio
Continental Steel Corp., Kokomo, Ind.
Interlocking Fence Co., Morton, Ill.
Kitselman Bros., Muncie, Ind.
Page Steel & Wire Div., American Chain Co., Inc., Monessen, Pa.
Pittsburgh Steel Co., Pittsburgh, Pa.
Republic Steel Corp., Chicago, Ill.
Wheeling Corrugating Co., Wheeling, W. Va.
Wickwire Spencer Steel Co., New York, N.Y.

IWAN EARTH AUGER

**BORES HOLES FOR MANY
PURPOSES IN A NUMBER
OF DIAMETERS**

Your trees can be nourished by boring small holes to the roots for deposit of fertilizer.
Fence in your orchard for protection against intruders and your live stock.
Made in sizes from 2 to 18 inches. Ask your dealer for the GENUINE IWAN.
Write For Complete Information

IWAN BROTHERS, INC.

1600 PRAIRIE AVE., SOUTH BEND, IND.

FROST PROTECTION

Engines

Allis-Chalmers Mfg. Co., Milwaukee, Wis.
Brennan Motor Mfg. Co., Syracuse, N.Y.
Caterpillar Tractor Co., Peoria, Ill.
Continental Motors Corp., Detroit, Mich.
John Deere, Moline, Ill.
Fairbanks, Morse & Co., Chicago, Ill.
Hercules Motor Co., Canton, Ohio
International Harvester Co., Chicago, Ill.
Stover Mfg. & Engine Co., Freeport, Ill.
Waukesha Motor Co., Waukesha, Wis.
Wisconsin Motor Corp., Milwaukee, Wis.
Witte Engine Works, Inc., Kansas City, Mo.

Indicators, Frost Alarm

W. R. Ames Co., San Francisco, Calif.
Thwing Instrument Co., Philadelphia, Pa.

Motors, Electric

Allis-Chalmers Mfg. Co., Milwaukee, Wis.
Fairbanks, Morse & Co., Chicago, Ill.
General Electric Co., Schenectady, N.Y.
Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.

Orchard Heaters

American Can Co., New York, N.Y.
W. R. Ames Co., San Francisco, Calif.
Anderson Incinerator Works, Chicago, Ill.
California Orchard Heater Co., Pomona, Calif.
Kittle Mfg. Co., Los Angeles, Calif.
National-Riverside Co., Riverside, Calif.
Scheu Products Co., Ltd., Upland, Calif.

Torches, Lighting

W. R. Ames Co., San Francisco, Calif.

Wind Machines

Conveyor Co., Inc., Huntington Park, Calif.
Jackson Iron Works, Huntington Park, Calif.
Towt Co., Glendale, Calif.

TILLAGE EQUIPMENT



Basin Listers

Allis-Chalmers Mfg. Co., Milwaukee, Wis.
B. F. Avery & Sons Co., Inc., Louisville, Ky.
J. I. Case Co., Racine, Wis.
Chase Plow Co., Lincoln, Nebr.
John Deere, Moline, Ill.
International Harvester Co., Chicago, Ill.
Massey-Harris Co., Racine, Wis.
Minneapolis-Moline Power Implement Co., Minneapolis, Minn.
Oliver Farm Equipment Sales Co., Chicago, Ill.

Brush Rakes

Dempster Mill Mfg. Co., Beatrice, Nebr.
J. D. Tower & Sons Co., Mendota, Ill.
Wyatt Mfg. Co., Salina, Kans.

Cultivators and Harrows

Allis-Chalmers Mfg. Co., Milwaukee, Wis.
Athens Plow Co., Athens, Tenn.
Barker Mfg. Co., David City, Nebr.
Bradley Mfg. Works, Bradley, Ill.
J. I. Case Co., Racine, Wis.
Centaur Tractor Corp., Greenwich, Ohio
Cleveland Tractor Co., Cleveland, Ohio
Cutaway Harrow Co., Higganum, Conn.
John Deere, Moline, Ill.
Dempster Mill Mfg. Co., Beatrice, Nebr.
Farm Tools, Inc., Mansfield, Ohio
A. B. Farquhar Co., Ltd., York, Pa.
Ferguson-Sherman Mfg. Corp., Dearborn, Mich.
Fresno Agricultural Works, Fresno, Calif.
General Implement Co., Cleveland, Ohio
Handy Harrow Co., Peoria, Ill.
Hussey Plow Co., N. Berwick, Maine
International Harvester Co., Chicago, Ill.
Massey-Harris Co., Racine, Wis.
Minneapolis-Moline Power Implement Co., Minneapolis, Minn.
Nash-Acme Harrow Co., Haddonfield, N.J.
Ohio Cultivator Co., Bellevue, Ohio
Oliver Farm Equipment Sales Co., Chicago, Ill.
J. D. Tower & Sons Co., Mendota, Ill.
Towner Mfg. Co., Santa Ana, Calif.
Wiard Plow Co., Batavia, N. Y.

Drills, Seed

Allis-Chalmers Mfg. Co., Milwaukee, Wis.
John Deere, Moline, Ill.
A. B. Farquhar Co., Ltd., York, Pa.
International Harvester Co., Chicago, Ill.
Massey-Harris Co., Racine, Wis.
Minneapolis-Moline Power Implement Co., Minneapolis, Minn.
Oliver Farm Equipment Sales Co., Chicago, Ill.
Ontario Drill Co., East Rochester, N.Y.
Peoria Drill & Seeder Co., Peoria, Ill.

Explosives

Atlas Powder Co., Wilmington, Del.
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.
Hercules Powder Co., Wilmington, Del.

Fertilizer Distributors

J. I. Case Co., Racine, Wis.
Cyclone Seeder Co., Urbana, Ind.
John Deere, Moline, Ill.
Farm Tools, Inc., Mansfield, Ohio
A. B. Farquhar Co., Ltd., York, Pa.
Frick Company, Waynesboro, Pa.
Hampshire Implement Co., Hatfield, Mass.
International Harvester Co., Chicago, Ill.
Massey-Harris Co., Racine, Wis.
New Idea Co., Inc., Coldwater, Ohio
Ohio Cultivator Co., Bellevue, Ohio
Oliver Farm Equipment Sales Co., Chicago, Ill.
Ontario Drill Co., E. Rochester, N.Y.
Smith Agricultural Chemical Co., Columbus, Ohio
Andrew Wilson, Inc., Springfield, N.J.

Hoes, Grape and Berry

John Deere, Moline, Ill.

Mowers

Allis-Chalmers Mfg. Co., Milwaukee, Wis.
B. F. Avery & Sons Co., Inc., Louisville, Ky.
J. I. Case Co., Racine, Wis.
Centaur Tractor Corp., Greenwich, Ohio
John Deere, Moline, Ill.
Farm Tools, Inc., Mansfield, Ohio
Huber Mfg. Co., Marion, Ohio
International Harvester Co., Chicago, Ill.
Massey-Harris Co., Racine, Wis.
Minneapolis-Moline Power Implement Co., Minneapolis, Minn.
Ohio Cultivator Co., Bellevue, Ohio
Oliver Farm Equipment Sales Co., Chicago, Ill.
JUNE, 1941

MODEL B

MAKES FRUIT GROWING

click!

MODEL B TRACTOR
\$518 F.O.B. MIL.
ON RUNNER
 9570 WITH LIGHTS, STARTER, HAYFAN

TO BETTER LIVING
TO BETTER FARMING
TO MORE PROFIT

Five-foot Full-View Safety Mower attaches in a jiffy—short enough to slip between trees.

Heavy-duty A-C Brenneis offset disc slices deep through tough cover crop roots.

Handy pick-up plow works in close quarters where plows are handicapped. Only \$54 f.o.b. for 16-inch plow.

FREE
 COLOR CATALOGS
 SEND COUPON

Here's an ace-in-the-hole for you . . . an idea that can take your fruit profits over the top . . . quick!

Get an Allis-Chalmers MODEL B TRACTOR and give your grove or berry patch the "going over" of its life. You can mow weeds, plow, cultivate, furrow-irrigate or haul prunings—do dozens of jobs that you never thought of doing before with a tractor. You can touch the starter button and run an errand on a cupful of gas, where it would break you up in business to use a big tractor. The Model B's smooth speedlining is easy on low-hanging branches. Big air tires and the "power-flash" governor take you through where most wheel tractors fear to tread. The Model B engine with water-cooled removable cylinder liners and cam-honed pistons is as up-to-date as a new automobile engine. See the full line of matched Model B implements at your Allis-Chalmers dealers—send coupon today!

ALLIS-CHALMERS

ALLIS-CHALMERS MFG. CO.
 Dept. 16, Tractor Division,
 Milwaukee, Wis.
 Gentlemen: Let's have the whole story.
 Send free catalogs checked. I have _____
 acres in _____ County.

☐ Model B Tractor
☐ Model B Implements
☐ Model M Orchard Crawler
☐ Brenneis Heavy Duty Implements

Name _____ R.F.D. _____
 Town _____ State _____

WHY WE DON'T TALK ABOUT NUTS AND BOLTS

Where does it get you?

Both light and heavy

Ten-year sod or garden-patch cultivating

Nuts and bolts are nice. And necessary. They make a machine work. But they don't make it *perform*. What makes a machine perform is an *idea*.

Our idea is that a farming machine ought not to be so highly specialized that a man has to do his farming to fit his machine.

Where does it get you to have a machine built specially to do light work economically, but without the guts to do your heavy work?

Or to invest in one that is so hopped up in power and weight in order to do heavy work that it is too costly to run for light work and chores?

Our idea is that you ought to be able to do both light and heavy work, economically, with one and the same machine.

That's where the Ferguson System comes in. It's an idea bigger than all the nuts and bolts in the world. It gives this light machine the capacity for *very heavy* work with a power plant that is really economical to run.

That's why, when we ask you for the chance to demonstrate, we don't put any strings on it. We say: You pick the spot, whether it's breaking ten-year sod or garden-patch cultivating.

We don't say: Surely one of these many special machines we have to offer will fit what you are doing, this year.

We do say: The Ford Tractor with Ferguson System will do *all* the kinds of work you have to do *this year*, and *all* that you may want to do *next year*. And it will do them so cheaply that you can make money.

This can be proved. You name the spot.

The Ford Tractor with Ferguson System is sold nationally by the Ferguson-Sherman Manufacturing Corporation, Dearborn, Mich., and distributed through dealers in every part of the country.



TILLAGE EQUIPMENT

Plows, Disc and Moldboard

Allis-Chalmers Mfg. Co., Milwaukee, Wis.
Bucher & Gibbs Plow Co., Philadelphia, Pa.
J. I. Case Co., Racine, Wis.
Centaur Tractor Corp., Greenwich, Ohio
Cutaway Harrow Co., Higganum, Conn.
John Deere, Moline, Ill.
Empire Plow Co., Cleveland, Ohio
Farm Tools, Inc., Mansfield, Ohio
Ferguson-Sherman Mfg. Corp., Dearborn, Mich.
Frick Company, Waynesboro, Pa.
International Harvester Co., Chicago, Ill.
Massey-Harris Co., Racine, Wis.
Minneapolis-Moline Power Implement Co., Minneapolis, Minn.
Ohio Cultivator Co., Bellevue, Ohio
Oliver Farm Equipment Sales Co., Chicago, Ill.
Wayne Agri. Works, Inc., Goldsboro, N.C.

Radiator Cleaners

Hygienic Products Co., Canton, Ohio

Sowers, Hand Seed

Cyclone Seeder Co., Urbana, Ind.

Stump Pullers

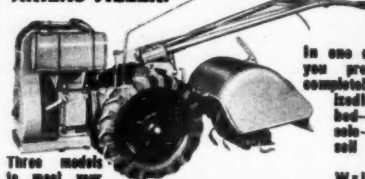
Hercules Mfg. Co., Centerville, Iowa
Kirstin Co., Escanaba, Mich.
Puljack Mfg. Corp., Englewood, N.J.

Tillers, Rotary

Ariens Co., Brillion, Wis.

CUT LABOR COSTS and GROW BETTER PLANTS

*** with ARIENS TILLER.



In one operation you prepare a completely pulverized leveled bed—no plow sale—no hard sell checks.

Three models to meet your requirements. Ideal for straw, berry, raspberry, fruit growers. Write for name of nearest distributor, and latest catalog.

ARIENS COMPANY

Box 704 Brillion, Wisconsin

Tires, Pneumatic

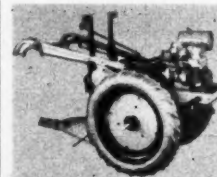
Firestone Tire & Rubber Co., Akron, Ohio
Fisk Tire Plant Division of U. S. Tire Dealers Corp., Chicopee Falls, Mass.
General Tire & Rubber Co., Akron, Ohio
Gillette Rubber Co., Eau Claire, Wis.
B. F. Goodrich Co., Akron, Ohio
Goodyear Tire & Rubber Co., Inc., Akron, Ohio
Kelly-Springfield Tire Co., Cumberland, Md.
Lee Tire & Rubber Corp., Conshohocken, Pa.
Seiberling Rubber Co., Akron, Ohio
United States Rubber Co., New York, N.Y.

Tractor Chains

American Chain Div., American Chain & Cable Co., Inc., Bridgeport, Conn.
Baldwin-Duckworth Chain Corp., Springfield, Mass.
Chain Belt Co., Milwaukee, Wis.
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Powered with a 4 H. P. Wisconsin Motor and equipped with automotive type transmission (3 speed forward and reverse) this tractor will handle jobs that are stalling tractors of similar size. The

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Fate-Root-Heath Co., Plymouth, Ohio
Ferguson-Sherman Mfg. Corp., Dearborn, Mich.
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keep your work on schedule with
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* TRU-TRACTION means power on both tracks at all times.

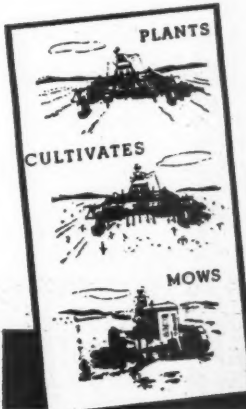
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JUNE, 1941



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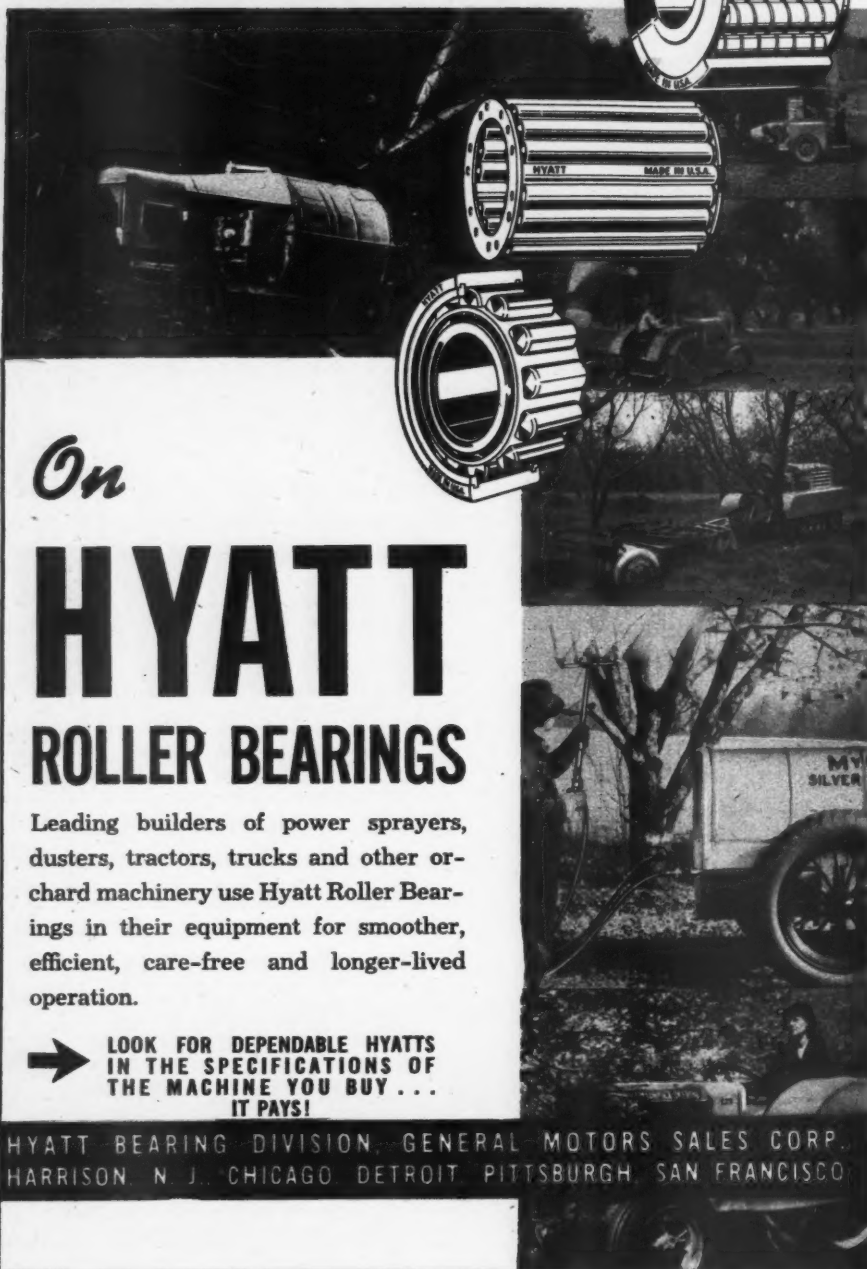
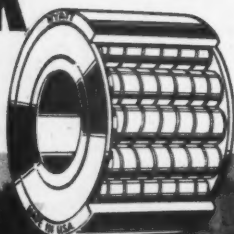
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AMERICAN FRUIT GROWER

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ORCHARD WORK RUNS SMOOTHER



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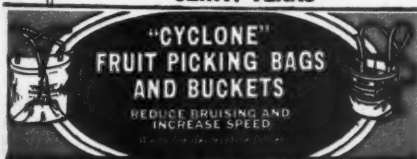
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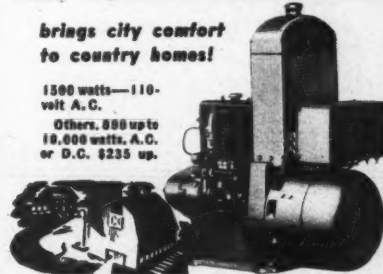
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Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.

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Bedell Engineering Co., Los Angeles, Calif.
Brunner Mfg. Co., Utica, N.Y.
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Carrier Corp., Syracuse, N.Y.
De LaVergne Engine Co., Inc., Philadelphia, Pa.
Frick Company, Waynesboro, Pa.
Frigidaire Div., General Motors Sales Corp., Dayton, Ohio
Gay Engineering Corp., Los Angeles, Calif.
General Electric Co., Bloomfield, N.J.
General Refrigeration Sales Co., Beloit, Wis.
Harris Ice Machine Works, Portland, Ore.
Howe Ice Machine Co., Chicago, Ill.
Nash-Kelvinator Corp., Detroit, Mich.
Norge Corp., Detroit, Mich.
Parker Ice Machine Co., Inc., San Bernardino, Calif.
Serval, Inc., Evansville, Ind.
Vilter Mfg. Co., Milwaukee, Wis.
Westinghouse Electric & Mfg. Co., E. Springfield, Mass.
Worthington Pump & Machinery Corp., Harrison, N.J.
York Ice Machinery Corp., York, Pa.

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Barber Asphalt Co., Philadelphia, Pa.
Barrett Co., The, New York, N.Y.
Bird & Son, E. Walpole, Mass.
Brown Fence & Wire Co., Cleveland, Ohio
A. M. Byers Co., Pittsburgh, Pa.
Philip Carey Mfg. Co., Lockland, Ohio
Continental Steel Corp., Kokomo, Ind.
Craine, Inc., Norwich, N.Y.
Edwards Mfg. Co., Cincinnati, Ohio
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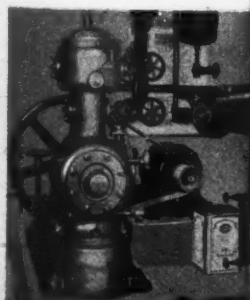
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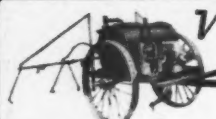
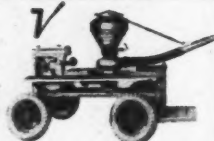
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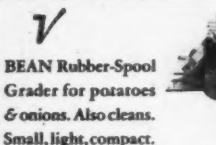


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MISCELLANEOUS

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Lewis Yoder Co., Box 788, Nampa
J. C. Watson Co., Box 277, Parma
Frank B. Arata Fruit Co., Payette
H. B. Long, Box 711, Twin Falls

ILLINOIS

John J. Keith & Son, Alto Pass
Hardin Orchard Supply Co., Anna
Austin Harris, Chester
H. A. DuBois & Sons, Cobden
Calhoun Supply Co., Hardin
Benoist Bros., Mt. Vernon
Sho-Off Orchard Products Co., 107 N. Washington St., Peoria

INDIANA

Cory Orchard Supply Co., 136 S. Senate, Indianapolis
Kenney Machinery Co., 301 West Maryland St., Indianapolis
Bornwasser-Gwin Implement Co., New Albany

KANSAS

Monahan & Crimm, 3416 Strong Ave., Kansas City

KENTUCKY

Louisville Chemical Co., Louisville

MAINE

H. P. Berry & Son, Livermore Falls

MASSACHUSETTS

Frost Insecticide Co., Arlington
Nashoba Orchard Service, Inc., Ayer
Robinson Farm Machinery Co., Natick

When something is needed quickly the dealer in orchard supplies located nearest to you will save you time and trouble. What he does not have in stock he can obtain for you. These dealers in orchard supplies have arranged with AMERICAN FRUIT GROWER to answer your questions and inquiries promptly.

MICHIGAN

C. V. Yoder, Almont
Central Hardware, Central Lake
Morrissey Farm & Orchard Supply, Comstock Park
Bartlett Mfg. Co., 3003 E. Grand Blvd., Detroit
Sprayer Supply Mfg. Co., Grand Rapids
Consumers Supply Store, Hartford
Carrier-Stephens Co., Lansing
Hunt's Drug Store, St. Johns
South Haven Chemical Co., Inc., South Haven
Pratt & Gleason, Route 1, Traverse City
Queen City Implement Co., Traverse City
Traverse City Implement Co., Traverse City

MINNESOTA

B. R. Neilson Hardware, Long Lake
H. E. Erickson Co., Inc., 245-2nd Ave. So., Minneapolis

MISSOURI

R. L. Barr Hardware Co., Exeter
J. E. May, Gray Summit
Evans Orchard Supply Co., 305 Delaware, Kansas City
Fred O. Ehlers, Lemay

MONTANA

Fred T. Parker Co., Hamilton

NEBRASKA

Miller Chemical Co., Inc., 15th and California Sts., Omaha
Farmers Grain & Supply Co., Weeping Water

NEW JERSEY

C. A. Lippincott & Bro., Inc., Moorestown

NEW MEXICO

J. Korber and Co., Albuquerque
Mead Hardware Co., Albuquerque
Revel Brothers, Albuquerque

NEW YORK

Van Noughuys Pump & Supply Co., 131-133 Hudson Ave., Albany
F. A. Read, Inc., Albion
Millard Frink, Altamont
Barker Chemical Corp., Alton
James S. Vosburgh, Athens
B. Resseguie & Son, Barker
John Bacon, Inc., Gasport
Payne & Trimble, Holley
A. H. Phillips Mfg. Co., Hulberton
Insecticide Corp. of America, Medina
Henry S. Brower, Middleport

B. Resseguie & Son, Middleport
B. Resseguie & Son, Newfane
E. Stuart Hubbard, Poughkeepsie
Double Twirler Spray Nozzle Corp., Red Hook
Stanton S. Allen, Stuyvesant Falls
McQueen Brothers, Wolcott

NORTH CAROLINA

M. C. McDonald, West End

OHIO

Russell Farley & Co., 309 Silver St., Akron
Ivor M. Parker, Clyde
Ohio Horticultural Services, 2060 South High St., Columbus
Trotter Hardware, East Liverpool
Farmers Implement & Supply Co., Marion, Ohio
Rollin H. Tabor, Mt. Vernon
Emery C. Leow, Oak Harbor
U-Need-Us Coal & Chemical Co., Painesville
W. H. Matthews, Box 313, Salem
Wilbur W. Reynolds, Utica
G. H. Holden, Wakeman
Tilton's Hardware, Whitehouse

OKLAHOMA

Adelman Hardware Co., Bixby

OREGON

Milkiewa Feed Mills, Milwaukie
R. J. McIsaac & Co., Parkdale
Miller Products Co., Portland

PENNSYLVANIA

Jno. Burton Arbuckle, Erie
Tyson Orchard Service, Flora Dale
John E. Huntsinger, Hegins
M. R. George Hardware, Mt. Pleasant
John D. Kline, Shartlesville
Fruit Growers of Chester County, Inc., West Chester

SOUTH CAROLINA

Prince & Shehan, Inc., Inman

TENNESSEE

Austin Feed & Seed Co., Chattanooga

TEXAS

O. S. Gray, Box K, Arlington
Geo. E. Darsey & Co., Grapeland

UTAH

E. C. Olsen Co., Inc., 377-31st St., Ogden
Patten & Ekins, Box 97, Provo
Wasatch Chemical Co., 2225 South Fifth East, Salt Lake City

VIRGINIA

Triplett & Vehrencamp, Mount Jackson
Southern States Roanoke Service, Roanoke
Barr's Orchard & Farm Supply, Winchester

WASHINGTON

C. E. Blackwell & Co., Inc., Okanogan
H. R. Spinner Co., Box 1409, Wenatchee
Wells & Wade, Wenatchee
Yakima Hardware Co., Yakima

WEST VIRGINIA

Charles Town Chemical Co., Inc., Charles Town
G. "Mose" Parkins, Martinsburg

WISCONSIN

Jackson-Kostka Co., Sturgeon Bay
Frank Knuth, Sturgeon Bay

Protection-Plus

Black Leaf 155 14%

Protective programs must combat a variety of destructive pests. Black Leaf 155 14% provides non-caustic codling moth control—and includes contact-action that controls several pests destructive to foliage and fruit.

"Protection-plus" includes control of leaf-hopper nymphs, with early "inside" sprays; bud moth larvae, with mid-summer "inside" sprays; summer aphid infestations; leaf-miners; hatching casebearers and pear psylla when combined with summer oil. On grapes, Black Leaf 155 14% controls leafhoppers and berry moth.

"Protection-plus", without a residue problem.

TOBACCO BY-PRODUCTS & CHEMICAL CORP.

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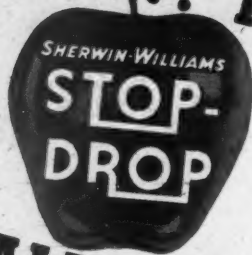
LOUISVILLE, KENTUCKY

4147



**Black
Leaf**

**PHOTOGRAPHIC
PROOF... THAT**



**ACTUALLY DOES
STOP DROP**

**STOP-
DROP**

**SPRAYED
TRANSPARENTS**

Illinois grown Transparent
sprayed with STOP-DROP.
Eleven apples dropped pre-
maturely.



**UNSPRAYED
TRANSPARENTS**

Illinois grown Transparent
unsprayed. 320 apples drop-
ped prematurely.



**SPRAYED
WEALTHY**

New York grown Wealthy
sprayed with STOP-DROP.
Seven apples dropped pre-
maturely.



**UNSPRAYED
WEALTHY**

New York grown Wealthy
unsprayed. Almost a bushel
dropped prematurely.



**SPRAYED
MacINTOSH**

New York grown McIntosh
sprayed with STOP-DROP.
One-third of a bushel
dropped prematurely.



**UNSPRAYED
MacINTOSH**

New York grown McIntosh
unsprayed. Approximately
five bushels dropped pre-
maturely.



SEE FOR YOURSELF
Here is the Evidence

IF YOU HAVE SPECIFIC QUESTIONS TO ASK, WRITE
THE SHERWIN-WILLIAMS CO., INSECTICIDE DEPT.,
101 PROSPECT AVENUE, CLEVELAND, OHIO